


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Cuch 10-17-2-1E				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BLUEBELL				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR GASCO PRODUCTION COMPANY						7. OPERATOR PHONE 303 996-1805				
8. ADDRESS OF OPERATOR 7979 East Tufts Avenue, Suite 1150, Denver, CO, 80237						9. OPERATOR E-MAIL jberg@gascoenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Jasanna Cuch						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-724-1026				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') PO Box 94, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		1768 FSL 1636 FEL		NWSE	17	2.0 S	1.0 E	U		
Top of Uppermost Producing Zone		1768 FSL 1636 FEL		NWSE	17	2.0 S	1.0 E	U		
At Total Depth		1768 FSL 1636 FEL		NWSE	17	2.0 S	1.0 E	U		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1636			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2300			26. PROPOSED DEPTH MD: 12700 TVD: 12700				
27. ELEVATION - GROUND LEVEL 5266			28. BOND NUMBER K08792707			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-3610				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	24	16	0 - 80	48.0	H-40 ST&C	10.0	Class G	137	1.17	15.8
Surf	12.25	9.625	0 - 1500	36.0	J-55 LT&C	10.0	Class G	654	1.15	15.8
							Class G	335	1.17	15.8
Prod	8.5	5.5	0 - 12700	17.0	P-110 LT&C	10.0	Poz Light	323	3.1	11.0
							Poz Light	2158	2.1	13.0
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input checked="" type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Jessica Berg				TITLE Regulatory Analyst			PHONE 303 996-1805			
SIGNATURE				DATE 12/11/2014			EMAIL jberg@gascoenergy.com			
API NUMBER ASSIGNED 43047551160000				APPROVAL  Permit Manager						

Gasco Production Company
Cuch 10-17-2-1E
NWSE, Section 17 T2S, R1E, U.S.B.&M.
Uintah County, UT

Drilling Program

1. Formation Tops MD

Duchesne River /Uinta	Surface
Upper Green River	5,450'
MGMK Marker	8,490'
Lower Green River	8,566'
Wasatch	9,688'
Total Depth	12,700'

2. Depth to Oil, Gas, Water, or Minerals

Upper Green River	5,450'	-	(Oil)
Lower Green River	8,566'	-	(Oil)
Wasatch	9,688'	-	(Oil)

Fresh water may be encountered in the Duchesne Formation, but is not expected below about 300'.

3. Pressure Control

Section BOP Description

Surface 12-1/4" diverter

Interm/Prod The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval (MD)		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom							Burst	Collapse	Tension
Conductor	0'	80'	48	H-40	STC	--	--	--	1,730	770	322,000
16									--	--	--
Surface	0'	1,500'	36	J-55	LTC	8.33	8.6	11	3,520	2,020	453,000
9 5/8									4.61	4.05	8.39
Production	0'	12,700'	17	P-110	LTC	9	10	11	10,640	7,480	445,000
5 1/2									2.28	1.40	2.06

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight (ppg)	Yield (ft ³ /sk)
				sacks			
Conductor	24	80'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	161	15%	15.8	1.17
				137			
Surface	12 1/4	1,200'	Class G w/ 2% KCl + 0.25 lbs/sk Flocele	752	100%	15.8	1.15
Lead				654			
Surface	12 1/4	300'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	392	100%	15.8	1.17
Tail				335			
Production	8 1/2	3,500'	Econocem-1# granulite+.25# polyflake	1002	25%	11.0	3.10
Lead				323			
Production	8 1/2	9,200'	Econocem-.95%bw HR-5+.125# polyflake	4532	25%	13.0	2.10
Tail				2158			

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 25% excess.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
Surface - 1,500'	An air and/or fresh water system will be utilized.
1,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. Anticipated maximum mud weight is 10.0 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from

PBTD to the cement top behind the production casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.47 psi/ft gradient.

$$12,700' \times 0.47 \text{ psi/ft} = 5944 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

This is planned as a vertical well.

Based on prior drilling experience in the area, Gasco Production Company is confident that the 5 1/2", 17.0# production is more than sufficient to avoid any possible mechanical integrity problems relating to collapse or burst conditions.

Variance Request for FIT Requirements:

Gasco Production Company respectfully requests a variance to Onshore Order 2, Section III, Part B, for the Pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Variance Request for Air Drilling Requirements:

Gasco Production Company respectfully requests a variance to Onshore Order #2, III.E.1

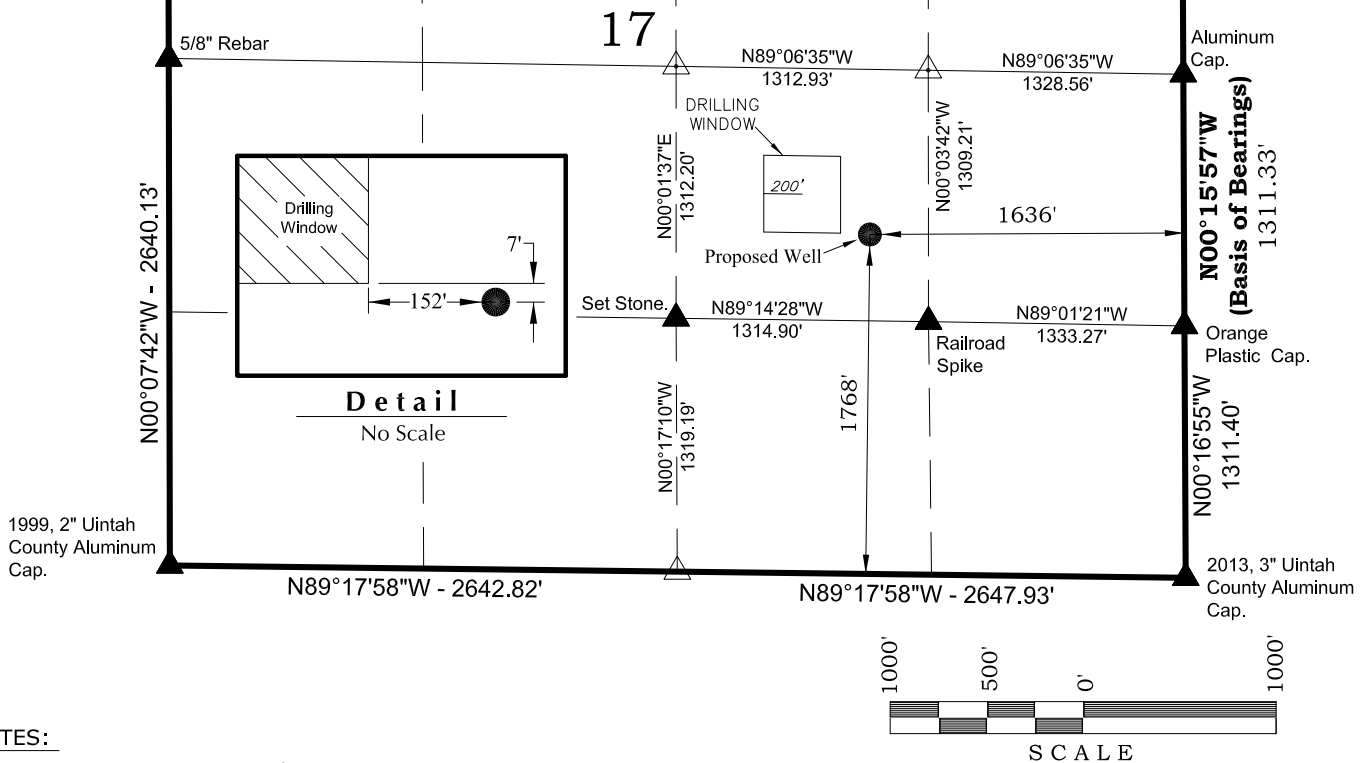
- Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 75' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the wellbore. Variance granted for truck/trailer mounted air compressors.
- Straight run blooie line. Variance granted for targeted "T's" at bends.
- Automatic igniter. Variance granted for igniter due to water mist.
- Air drilling operations will be conducted only during drilling of the surface casing hole, there is no history of hydrocarbons being encountered in this hole section in the area where these wells are to be drilled.

T2S, R1E, U.S.B.&M.

Proposed Well Head NAD 83
 LATITUDE = 40.306920°N
 LONGITUDE = 109.903156°W

**WELL LOCATION:
 CUCH 10-17-2-1E**

ELEV. UNGRADED GROUND = 5266.2'

**NOTES:**

- ▲ = Section Corners Located
- △ = Section Corners Located Not Monumented
- 1. Well footages are measured at right angles to the Section Lines.
- 2. Bearings and distances shown on this plat are based upon a local Cartesian Grid which is oriented to Geodetic North at the SE Corner of Section 36, T2S, R1E, U.S.B.&M. the grid having a mean project height of 5,000'. Lineal units used are U.S. Survey Foot. Trimble G.P.S. equipment was used in performance of this survey.
- 3. Latitude and Longitude are NAD 83 (2011) Epoch 2010. Elevations are NAVD 88. Both derived from the Utah Virtual Reference Station Control System (VRS).

Gasco Production Company**WELL PLAT**

**CUCH 10-17-2-1E
 1768' FSL, 1636' FEL
 NW $\frac{1}{4}$ SE $\frac{1}{4}$ OF SECTION 17, T2S, R1E,
 U.S.B.&M., UTAH COUNTY, UTAH.**

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

11-10-14
 No. 8704293
 BROCK J SLAUGH
 PROFESSIONAL LAND SURVEYOR
 LICENCE No. 8704293
 STATE OF UTAH

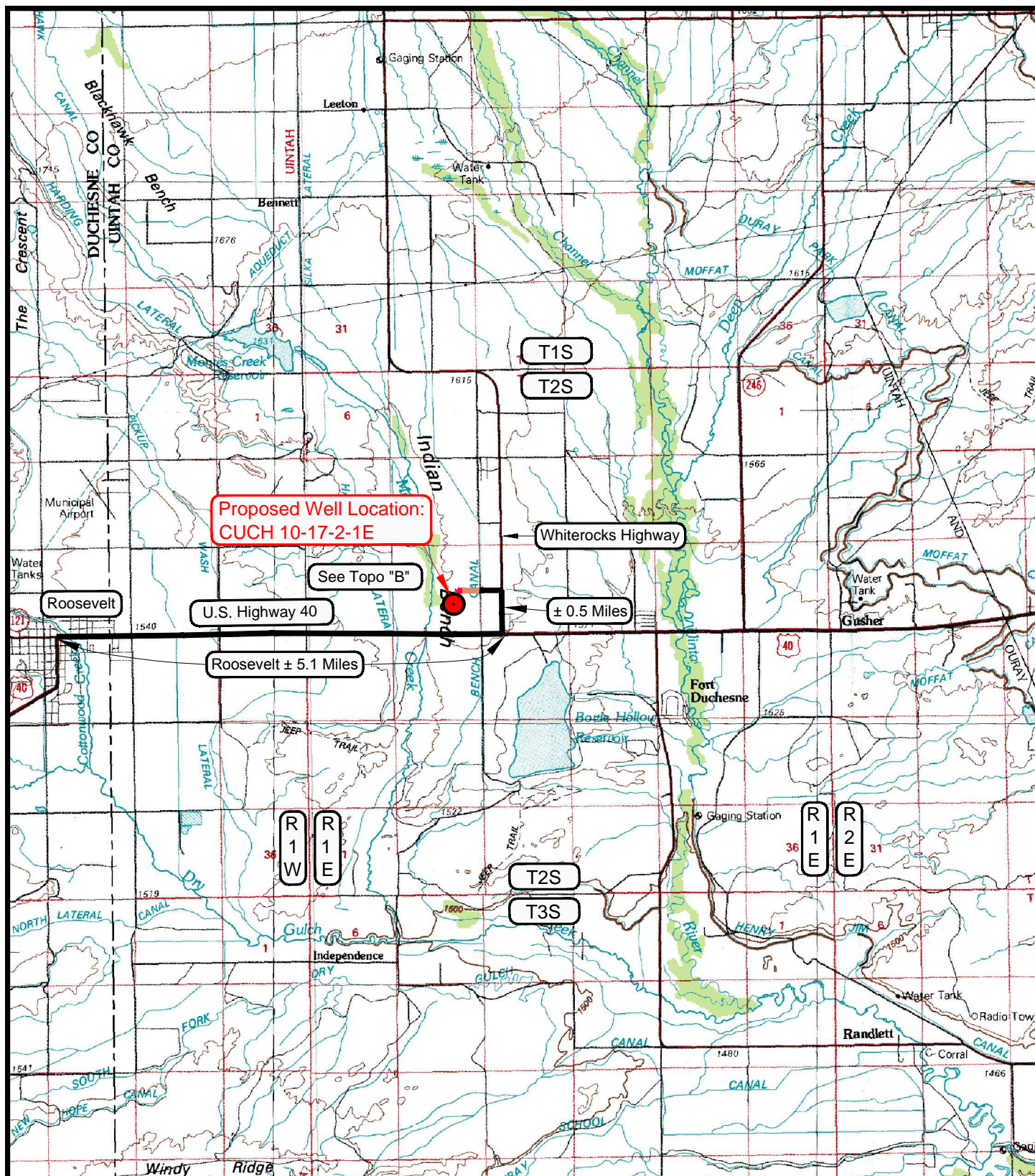
TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-7-14	SURVEYED BY: T.A.	SHEET NO: 1 OF 12
DATE DRAWN: 6-20-14	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED: December 11, 2014



LEGEND

PROPOSED ACCESS ROAD
 ■■■■ = SUBJECT WELL
 ■■■■ = OTHER WELLS
 — = EXISTING ROAD
 — = EXISTING ROAD (TO BE IMPROVED)

(B-5460) = COUNTY ROAD CLASS
& NUMBER

TOPOGRAPHIC MAP "A"

DATE SURVEYED: 6-7-14

DATE DRAWN: 6-20-14

SCALE: 1:100,000

DRAWN BY: M.W.W.

REVISED:

Gasco Production Company

WELL- CUCH 10-17-2-1E

1768' FSL & 1636' FEL

LOCATED IN SECTION 17, T2S, R1E,
 U.S.B.&M., UINTAH COUNTY, UTAH.

TIMBERLINE

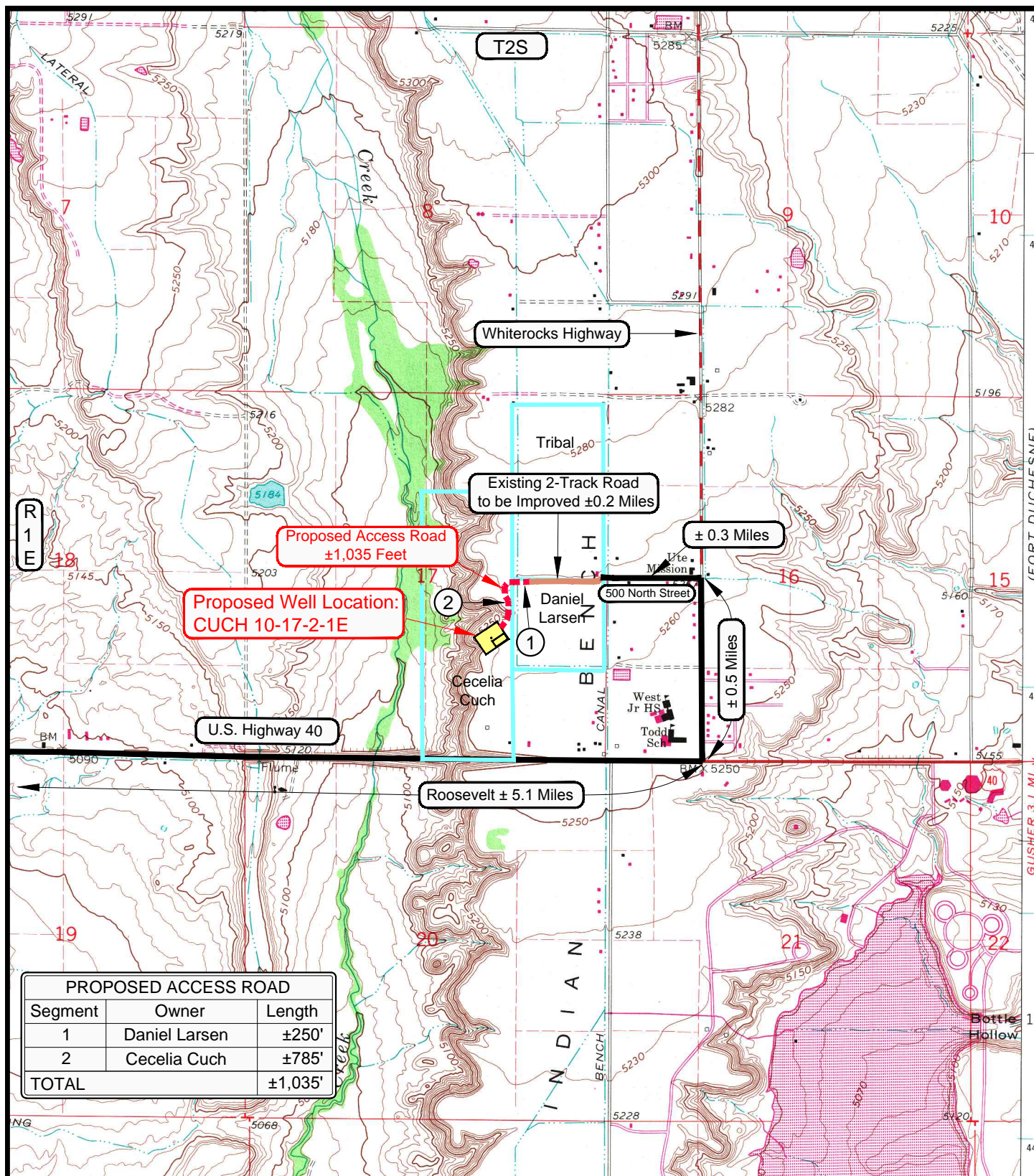
(435) 789-1365

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 209 NORTH 300 WEST - VERNAL, UTAH 84078

SHEET

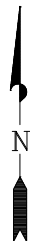
6

OF 12



LEGEND

- PROPOSED ACCESS ROAD
 ■■■■ = SUBJECT WELL
 ■■■■ = OTHER WELLS
 — = EXISTING ROAD
 — = EXISTING ROAD (TO BE IMPROVED)
 ■ = PROPOSED WELL
- (B-5460) = COUNTY ROAD CLASS & NUMBER
 — = LEASE LINE AND / OR PROPERTY LINE



Gasco Production Company

WELL - CUCH 10-17-2-1E
1768' FSL & 1636' FEL
LOCATED IN SECTION 17, T2S, R1E,
U.S.B.&M., UTAH COUNTY, UTAH.

TOPOGRAPHIC MAP "B"

DATE SURVEYED: 6-7-14

DATE DRAWN: 6-20-14

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED:

TIMBERLINE

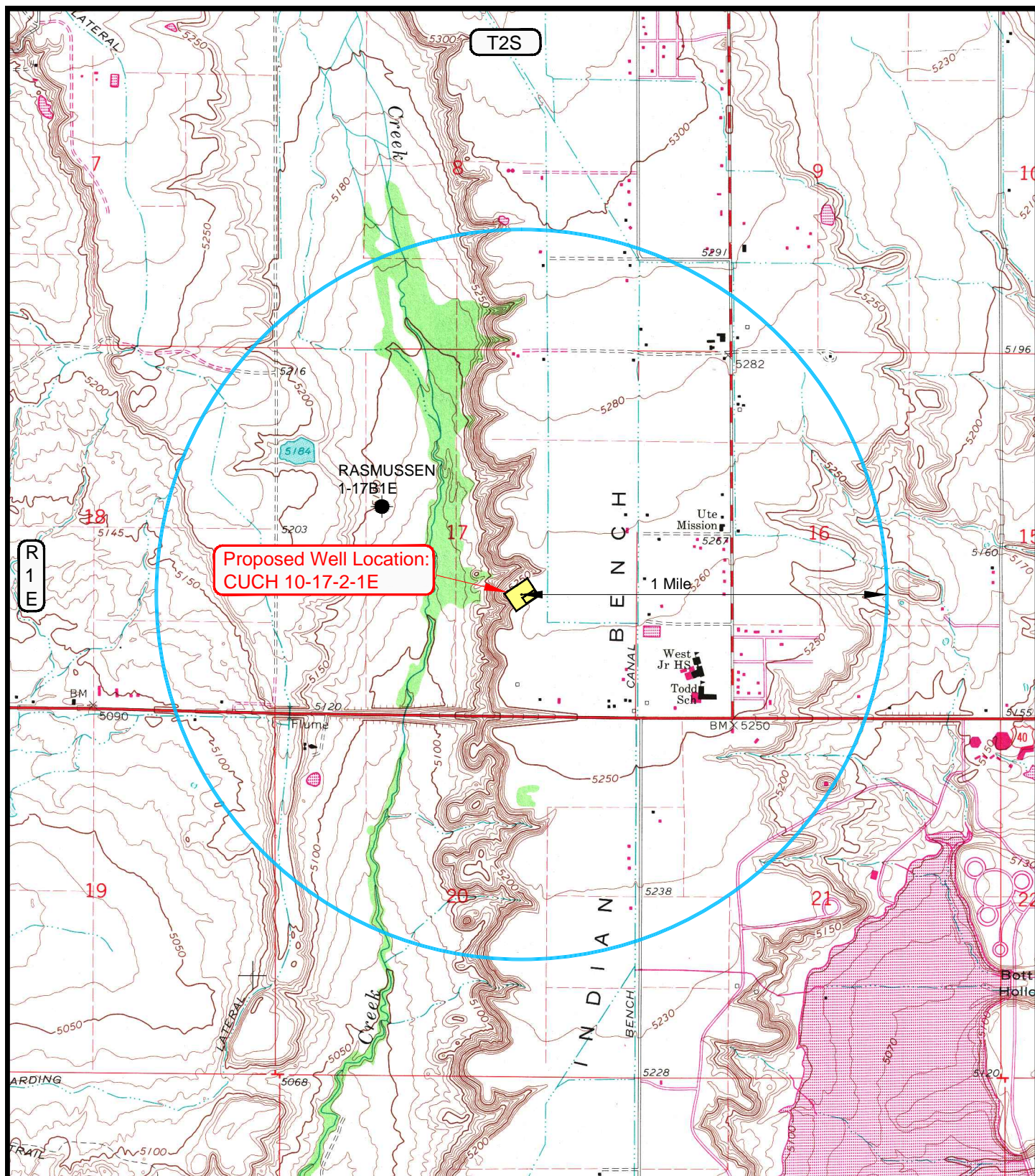
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 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

SHEET

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OF 12



LEGEND

- | | |
|--------------------|--------------------------------|
| ⊗ = DISPOSAL WELL | ⊗ = WATER WELL |
| ● = PRODUCING WELL | ● = ABANDONED WELL |
| ● = SHUT IN WELL | ● = TEMPORARILY ABANDONED WELL |
| ○ = PROPOSED WELL | ⊗ = ABANDONED LOCATION |

TOPOGRAPHIC MAP "C"

DATE SURVEYED: 6-7-14

DATE DRAWN: 6-20-14

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED:

Gasco Production Company

WELL - CUCH 10-17-2-1E
1768' FSL & 1636' FEL
LOCATED IN SECTION 17, T2S, R1E,
U.S.B.&M., UINTAH COUNTY, UTAH.

TIMBERLINE

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ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

SHEET

8

OF 12

RECEIVED: December 11, 2014

AFFIDAVIT OF STATUS OF SURFACE USE AGREEMENT

Brandon Casey, being first duly sworn on this oath, states that he is familiar with the following described property, to wit:


Badlands Energy – Utah, LLC recently acquired an interest in leases held by RIG II, LLC.

RIG II, LLC has an executed Surface Use Agreement and Grant of Easements with Jasanna Cuch, dated the 7th day of July 2014 covering Township 2 South, Range 1 East, U.S.M. Section 17: NWSE, Uintah County, Utah.

Gasco Production Company is the designated operator for Badlands Energy – Utah, LLC.

And that he is familiar with the existence of such unrecorded document.

Affiant



Brandon Casey

STATE OF Colorado)
)ss
COUNTY OF Denver)

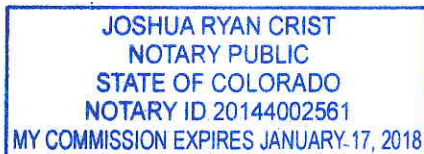
This instrument was acknowledged before me this 4th day of December, 2014 by Brandon Casey, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument.

Witness my hand and official seal.

My commission expires: 1/17/18



Notary Public



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 5

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: Fee

LEASE NUMBER: Fee

and hereby designates

NAME: Gasco Production Company

ADDRESS: 7979 E Tufts Ave, Suite 1150

city Denver state CO zip 80237

as his (check one) agent ☐ / operator ☒, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

Proposed Well: Cuch 10-17-2-1E
NWSE of Section 17-T2S-R1E

Proposed Well: Tryon 10-19-2-1E
NESW of Section 19-T2S-R1E

Proposed Well: Babb 6-24-2-1E
SENE of Section 24-T2S-R1E

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

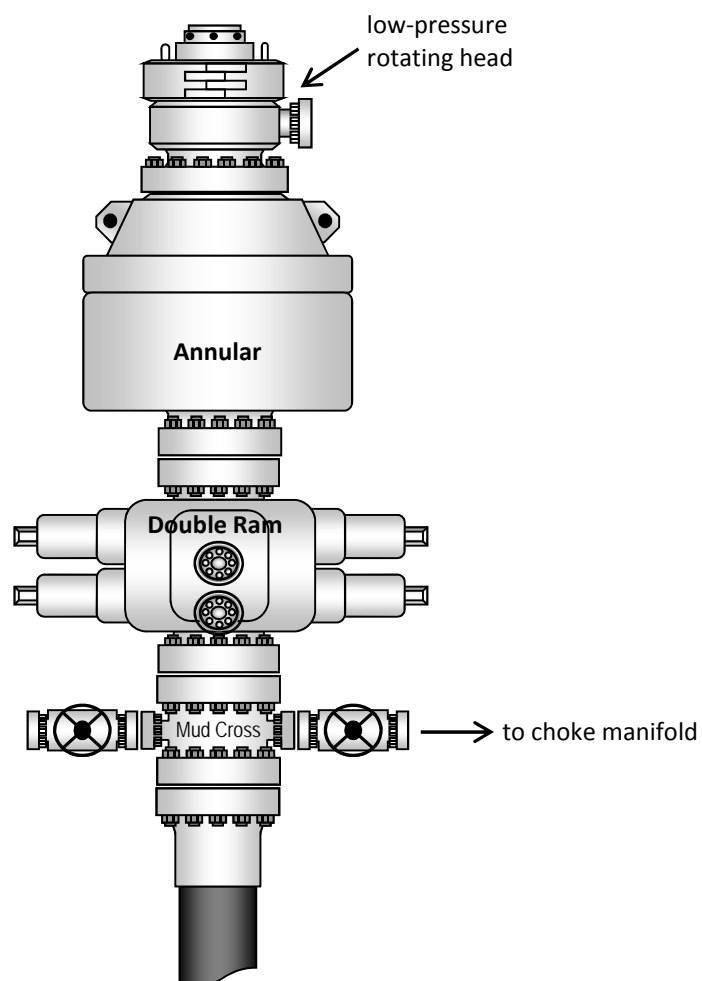
The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 11/01/2014

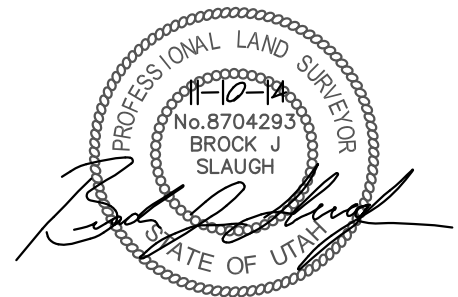
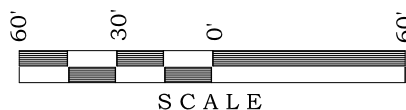
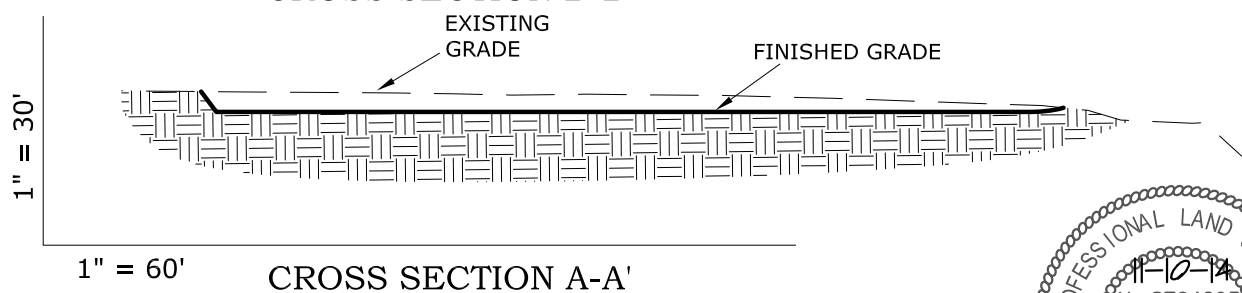
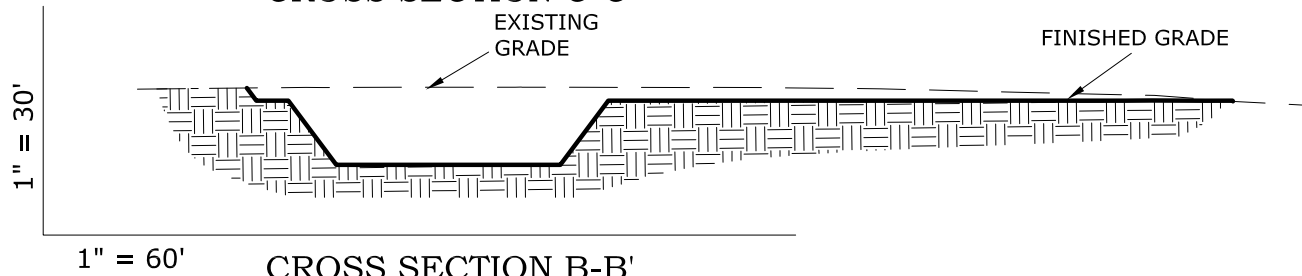
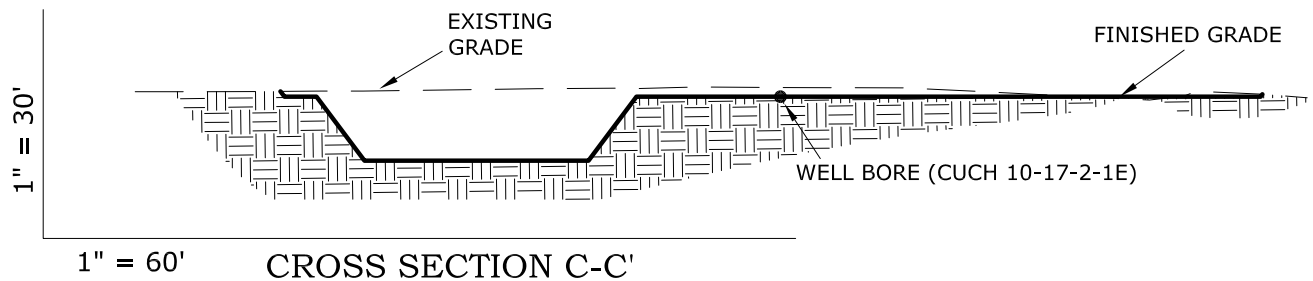
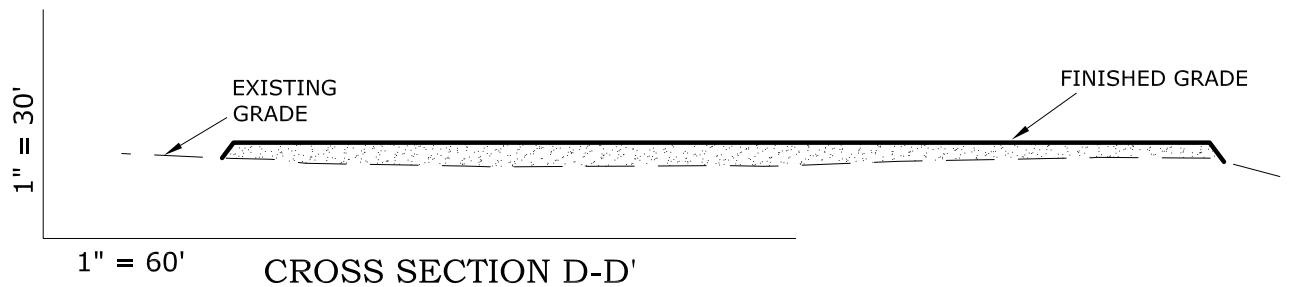
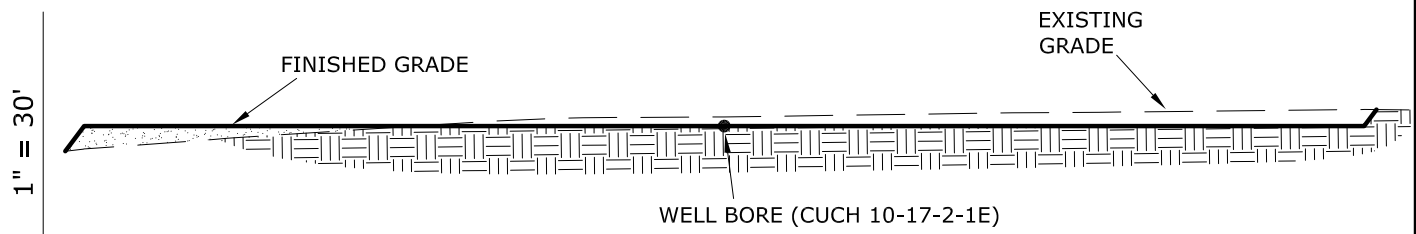
BY: (Name) Richard Langdon
(Signature) 
(Title) President & CEO
(Phone) (303) 483-0044

OF: (Company) Badlands Energy - Utah, LLC
(Address) 7979 E Tufts Ave, Suite 1150
city Denver
state CO zip 80237

Typical 5M BOP stack configuration



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Gasco Production Company

WELL PAD - CROSS SECTION

CUCH 10-17-2-1E
1768' FSL & 1636' FEL
LOCATED IN SECTION 17, T2S, R1E,
U.S.B.&M., UTAH COUNTY, UTAH.

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-7-14	SURVEYED BY: T.A.	SHEET NO: 3 OF 12
DATE DRAWN: 6-20-14	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised:	

RECEIVED: December 11, 2014

NOTE:
PRODUCTION EQUIPMENT LOCATION
COULD VARY DUE TO SITE AND OPERATION
EFFECTIVENESS.

FLARE PIT

PIT AREA

Pump

CUCH 10-17-2-1E

Insulated 2" Flow
line & 1" TraceTruck
TurnaroundSeparator /
Meter House3 300 bbl
Tanks & Berm

Sales Line

ACCESS

LEGEND

● = PROPOSED WELL LOCATION

**Gasco Production Company****WELL PAD - FACILITY DIAGRAM**

CUCH 10-17-2-1E
1768' FSL & 1636' FEL
LOCATED IN SECTION 17, T2S, R1E,
U.S.B.&M., UINTAH COUNTY, UTAH.

TIMBERLINE

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ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

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6-7-14

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DATE DRAWN:

6-20-14

DRAWN BY: M.W.W.

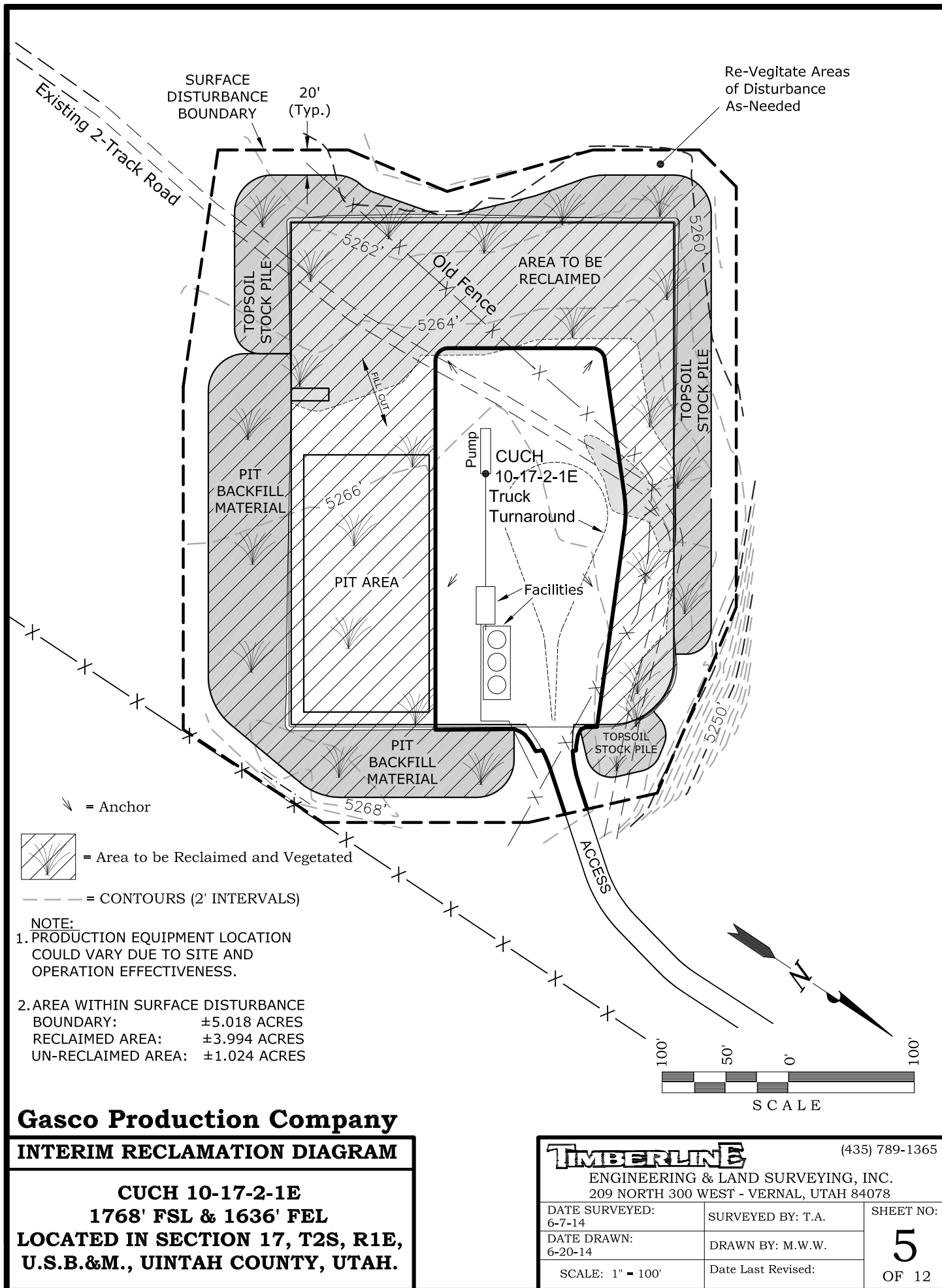
SCALE: 1" = 60'

Date Last Revised:

4

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RECEIVED: December 11, 2014



Gasco Production Company

INTERIM RECLAMATION DIAGRAM

CUCH 10-17-2-1E
1768' FSL & 1636' FEL
LOCATED IN SECTION 17, T2S, R1E,
U.S.B.&M., Uintah County, Utah.

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED:
6-7-14

SURVEYED BY: T.A.

SHEET NO:

DATE DRAWN:
6-20-14

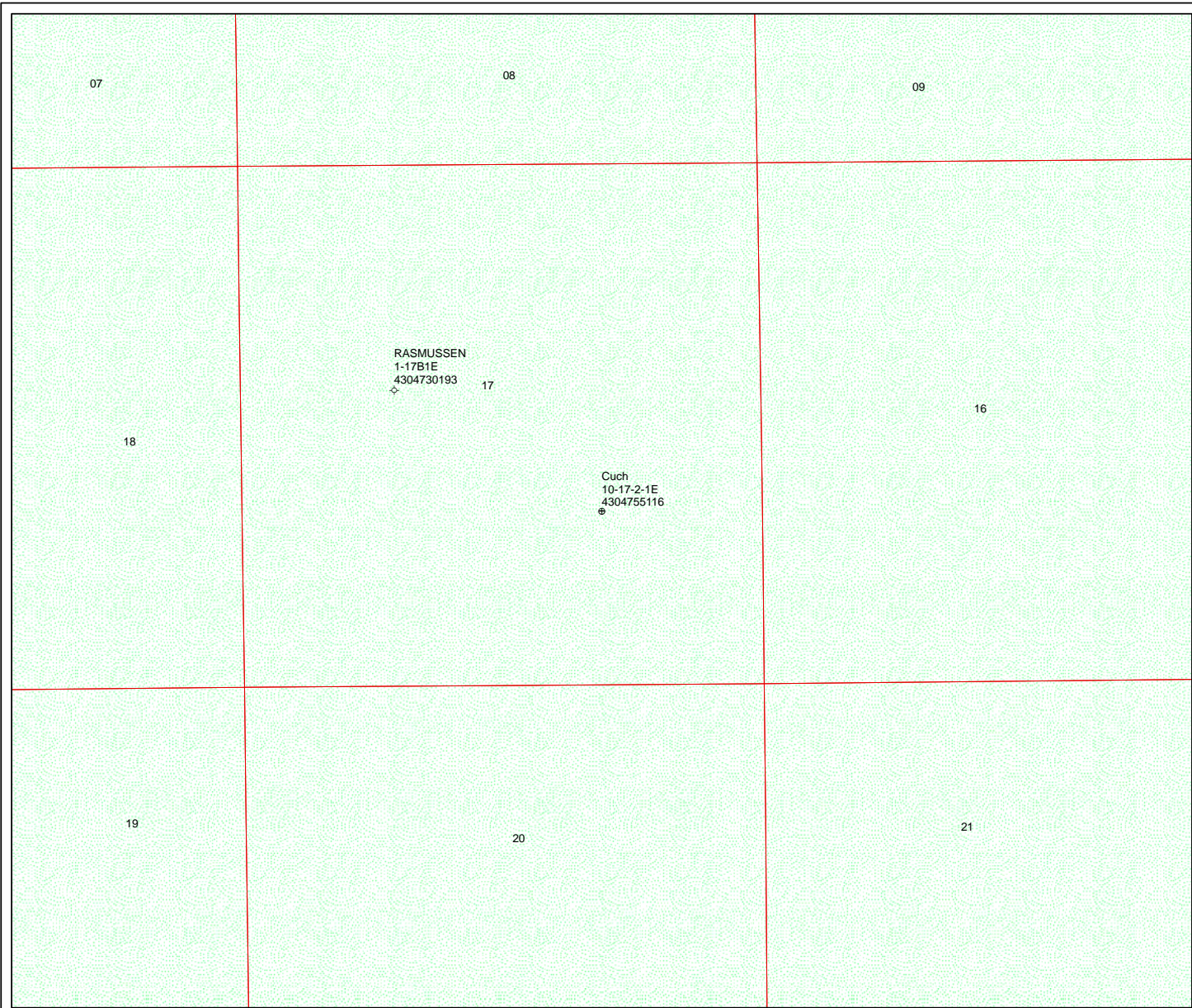
DRAWN BY: M.W.W.

SCALE: 1" = 100'

Date Last Revised:

5

OF 12



API Number: 4304755116

Well Name: Cuch 10-17-2-1E

Township: T02.0S Range: R01.0E Section: 17 Meridian: U

Operator: GASCO PRODUCTION COMPANY

Map Prepared: 12/18/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Approved Permit
- DRL - Spudded (Drilling Commenced)
- GRW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WW - Water Injection Well
- WSW - Water Supply Well

Units

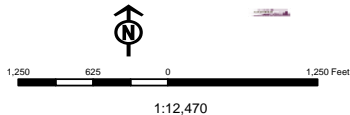
STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED



Well Name	GASCO PRODUCTION COMPANY Cuch 10-17-2-1E 43047551160000			
String	Cond	Surf	Prod	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	1500	12700	
Previous Shoe Setting Depth (TVD)	0	80	1500	
Max Mud Weight (ppg)	10.0	10.0	10.0	
BOPE Proposed (psi)	0	500	5000	
Casing Internal Yield (psi)	0	3520	10640	
Operators Max Anticipated Pressure (psi)	5944		9.0	

Calculations	Cond String	16.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	42		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	32	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	24	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	24	NO	
Required Casing/BOPE Test Pressure=		0	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	Surf String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	780		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	600	NO	diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	450	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	468	NO	OK
Required Casing/BOPE Test Pressure=		1500	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6604		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5080	NO	5M double RAM & annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3810	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4140	NO	OK
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

GASCO PRODUCTION COMPANY

Cuch 10-17-2-1E

43047551160000

stip rot head

stip Variance S

9.625 " Casing

1500 ' MD

1500 ' TVD

Surface ' TOC

980 ' Tail

24 % Washout

12.25 " Hole

Formation Depth (MD)

UINTA 0

BMSW 4800

GRRV 5450

MGMK 8490

LWR GR 8566

WSTCH 9688

5.5 " Casing

12700 ' MD

12700 ' TVD

Surface ' TOC

2646 ' Tail

25 % Washout

8.5 " Hole

surft
3500'

no wdw, wdw

GASCO PRODUCTION COMPANY
Cuch 10-17-2-1E
43047551160000

MASP		Collapse Strength (psi)		Collapse Load (psi)		Burst Strength (psi)		Burst Load (psi)		Burst DF		Tension Strength (kips)		Tension DF		Neutral Point (ft)		Tension Air (kips)		Tension Buoyed (kips)	
599		2020		779		3520		1500		2.35		453		9.85		1271		54.0		46.0	
MW (ppg)		Internal Grad. (psi)		Backup Mud (ppg)		Max Shoe Pressure (psi)*		CSG Wt (lbs/ft)		CSG Grade		CSG Collar		Cement Lead (sx)		Lead Yield		Cement Tail (sx)		Tail Yield	
10.0		0.12				4133		36.0		J-55		LTC		654		1.15		335		1.17	
MASP		Collapse Strength (psi)		Collapse Load (psi)		Burst Strength (psi)		Burst Load (psi)		Burst DF		Tension Strength (kips)		Tension DF		Neutral Point (ft)		Tension Air (kips)		Tension Buoyed (kips)	
3803		7480		6597		10640		6597		1.61		445		2.43		10758		215.9		183.2	
MW (ppg)		Internal Grad. (psi)		Backup Mud (ppg)		Max Shoe Pressure (psi)*		CSG Wt (lbs/ft)		CSG Grade		CSG Collar		Cement Lead (sx)		Lead Yield		Cement Tail (sx)		Tail Yield	
10.0		0.22				6597		17.0		P-110		LTC		323		3.10		2158		2.10	

9.625 " Casing

5.5 " Casing

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator GASCO PRODUCTION COMPANY
Well Name Cuch 10-17-2-1E
API Number 43047551160000 **APD No** 10876 **Field/Unit** BLUEBELL
Location: 1/4,1/4 NWSE **Sec** 17 **Tw** 2.0S **Rng** 1.0E 1768 FSL 1636 FEL
GPS Coord (UTM) 593204 4462402 **Surface Owner** Jasanna Cuch

Participants

Jesse Duncan, David Burnett, Jessica Berg and Maryna Fitzgerald all of GASCO Production.

Regional/Local Setting & Topography

This proposed well site lies approximately 5 miles east of Roosevelt, Ut and under 1/2 mile north of Highway 40. The well sits on the west edge of a large flat bench which runs north and south. The bench cuts in on the north side of this location where there is a live spring and drainage to the west. The bench then continues for a long distance to the north, east and south. To the west and near the edge of location the bench drops steeply. Along Highway 40 in this area are numerous homes, a bar and an elementary school within 1 mile.

Surface Use Plan

Current Surface Use

Recreational
 Grazing
 Wildlife Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.2	Width 305 Length 400	Offsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sage, rabbit brush, cheat grass

Soil Type and Characteristics

Cobbly sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? Y

minor diversions may be needed

Berm Required? Y

Drops off steeply to west side of location and to north of location land slopes steeply to a spring.

Erosion Sedimentation Control Required? Y

Location must be bermed to protect nearby spring, but site appears stable

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit**Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	25 to 75	15
Distance to Surface Water (feet)	200 to 300	10
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	TDS>10000	15
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		60 1 Sensitivity Level

Characteristics / Requirements

A reserve pit is proposed in a cut stable location. The soil here is very permeable with cobble and gravel, there is a nearby spring and the land drops off steeply to the west and fairly steeply toward the spring to the north. A double 20 mil liner and felt subliner must be used.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

Other Observations / Comments

Richard Powell
Evaluator

1/28/2015
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
10876	43047551160000	LOCKED	OW	P	No
Operator	GASCO PRODUCTION COMPANY		Surface Owner-APD	Jasanna Cuch	
Well Name	Cuch 10-17-2-1E		Unit		
Field	BLUEBELL		Type of Work	DRILL	
Location	NWSE 17 2S 1E U 1768 FSL 1636 FEL GPS Coord (UTM) 593205E 4462394N				

Geologic Statement of Basis

Gasco proposes to set 80 feet of conductor and 1,500 feet of surface casing which will be cemented to surface. The surface hole will be drilled utilizing air/fresh water mud. The estimated depth to the base of moderately saline ground water is 4,800 feet. A search of Division of Water Rights records indicates that there are 20 water wells within a 10,000 foot radius of the center of Section 17. These wells probably produce water from the Duchesne River Formation and associated alluvium. The wells range from 28 to 500 feet deep. Water uses are listed as irrigation, stock watering and domestic. The proposed casing and cementing program should adequately protect the highly used Duchesne River aquifer. The cement for the production string of casing should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

2/10/2015
Date / Time

Surface Statement of Basis

This proposed well site is on fee surface with fee minerals. Surface owner Jasanna Cuch was in attendance for this onsite inspection. Ms. Cuch stated several concerns with drilling at this site. She does not want the well to be drilled as it is not far behind her home and this land is very sentimental to her. Ms. Cuch is concerned about traffic safety and feels that having trucks entering and exiting the Highway in this area is not safe. Also, about 300 feet north of the location there is a spring which Ms. Cuch is very worried may become contaminated by this well. When GASCO representative Jesse Duncan was asked about these issues he stated that GASCO had gone through the Utah Department of Transportation and the Highway 40 access point was selected and approved by the DOT. Also, Mr. Duncan agreed to run a full chemistry baseline analysis of the spring water and agreed to do routine testing of the spring during the life of the well. The land drops off steeply to the west side of the location and slopes steeply to the spring to the north and for these reason a substantial berm must be built around this location to keep any leaked or spilled fluids from exiting the location. The soil here is quite permeable and contains a good deal of cobble and gravel and a double 20 mil liner and felt subliner will be required. I asked for a phone call to Richard Powell giving a 24 hour notification of surface pipe cement. Mr. Duncan agreed to make sure I am notified by phone.

Richard Powell
Onsite Evaluator

1/28/2015
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A double synthetic liner each with a minimum thickness of 20 mils and an appropriate thickness of felt sub-liner to cushion the liners shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad. This must be a durable berm with adequate compaction to provide containment.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/11/2014

API NO. ASSIGNED: 43047551160000

WELL NAME: Cuch 10-17-2-1E

OPERATOR: GASCO PRODUCTION COMPANY (N2575)

PHONE NUMBER: 303 996-1805

CONTACT: Jessica Berg

PROPOSED LOCATION: NWSE 17 020S 010E

Permit Tech Review: ☒

SURFACE: 1768 FSL 1636 FEL

Engineering Review: ☒

BOTTOM: 1768 FSL 1636 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.30687

LONGITUDE: -109.90317

UTM SURF EASTINGS: 593205.00

NORTHINGS: 4462394.00

FIELD NAME: BLUEBELL

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - K08792707☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-3610☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-42

Effective Date: 4/12/1985

Siting: 660' Fr Ext Bdry & 1320' Fr Other Wells

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
27 - Other - daynedoucet
28 - Other2 - daynedoucet

RECEIVED: March 30, 2015



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Cuch 10-17-2-1E
API Well Number: 43047551160000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 3/30/2015

Issued to:

GASCO PRODUCTION COMPANY, 7979 East Tufts Avenue, Suite 1150, Denver, CO 80237

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-42. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Use of a properly lubricated rotating head is required while air drilling.

Health and safety requirements for drilling operations are covered under Utah rule R614-2. R614-2-20 covers safety procedures for air and gas drilling. Any variances to these rules (including requirements for blowie lines and air compressors) must be granted by the Utah Labor Commission (see R614-2-1.E).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 7979 East Tufts Avenue, Suite 1150, Denver, CO, 80237		8. WELL NAME and NUMBER: Cuch 10-17-2-1E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1768 FSL 1636 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 01.0E Meridian: U		9. API NUMBER: 43047551160000
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: BLUEBELL
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/12/2105 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div>	
	OTHER: Change to Confidential	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Gasco Production Company requests to drill this well as a tight hole.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 15, 2015		
NAME (PLEASE PRINT) Jessica Berg	PHONE NUMBER 303 996-1805	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/12/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BADLANDS ENERGY-UTAH, LLC		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 7979 E Tufts Ave, Suite 1150 , Denver, CO, 80237		8. WELL NAME and NUMBER: Cuch 10-17-2-1E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1768 FSL 1636 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 01.0E Meridian: U		9. API NUMBER: 43047551160000
PHONE NUMBER: 303 996-1813 Ext		9. FIELD and POOL or WILDCAT: BLUEBELL
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/19/2015	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Badlands Energy-Utah, LLC spud this well and set conductor to 75'.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 24, 2015		
NAME (PLEASE PRINT) Lindsey J. Cooke	PHONE NUMBER 303 996-1834	TITLE Production Tech
SIGNATURE N/A	DATE 6/23/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 7979 East Tufts Avenue, Suite 1150, Denver, CO, 80237		8. WELL NAME and NUMBER: Cuch 10-17-2-1E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1768 FSL 1636 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 01.0E Meridian: U		9. API NUMBER: 43047551160000
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: BLUEBELL
COUNTY: UINTAH		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/1/2015	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> OTHER OTHER: Directional Plan

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco Production Co requests a **change from vertical to a directional** well. Gasco is applying for a change to directional in order to comply with the requests of the surface owner, while maintaining the producing zone and bottom hole in the center of the section. Please see attached affidavit, plat map and directional plan.

Approved by the
July 01, 2015
Oil, Gas and Mining

Date: _____

By: 

NAME (PLEASE PRINT) Jessica Berg	PHONE NUMBER 303 996-1805	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/1/2015	

RECEIVED: Jul. 01, 2015

AFFIDAVIT

Brandon Casey, of lawful age, after having first duly sworn upon his oath, disposes and states:

That he is employed by Badlands Energy – Utah, L.L.C. (“Badlands”) as a Landman. Badlands has submitted the Application for Permit to Drill to produce from the Green River and Wasatch formations in the following well:


Cuch 10-17-2-1E NW/4SE/4 Section 17 T2S-R1E U.S.B. & M.

That in compliance with Utah OGM regulation R649-3-11, Badlands is the owner of oil and gas rights within a 460 foot radius along the intended well bore. It is further stated that the subject well location is in compliance with Utah OGM regulation R649-3-2.

Gasco Production is the designated operator for the subject well.

Date: July 1, 2015

Affiant



Brandon Casey
Landman

Acknowledgements


STATE OF Colorado)

) SS.

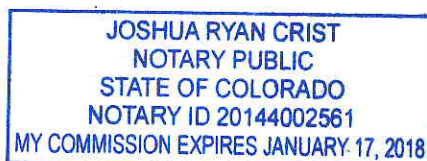
COUNTY OF Denver)

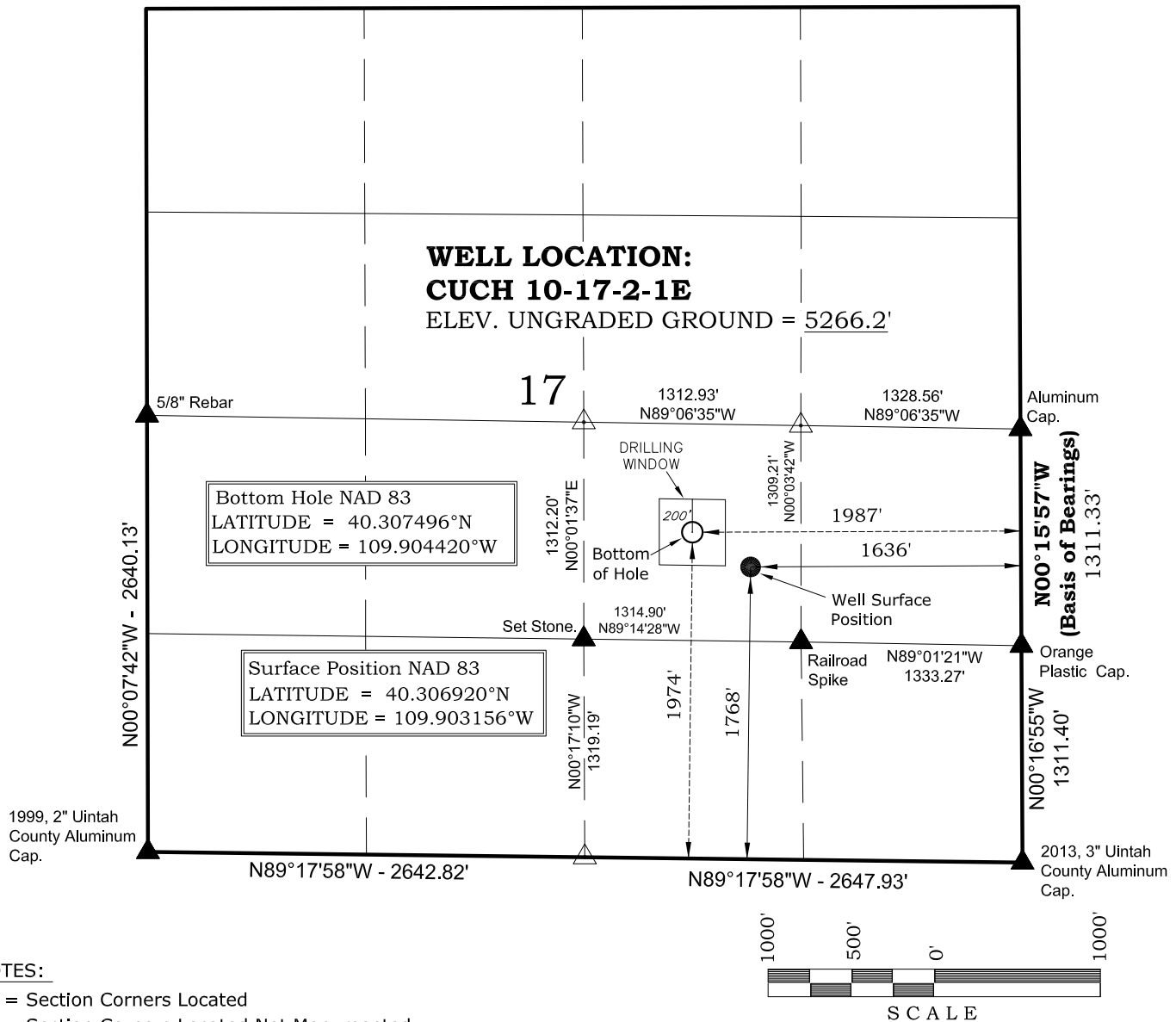
On this 1st day of July, 2015, before me, the undersigned Notary Public in and for said county and state, personally appeared Brandon Casey known to me to be the person or persons whose names are subscribed to the foregoing instrument, and acknowledged that the same was executed and delivered as their free and voluntary act for the purposes therein set forth. In witness whereof I hereunto set my hand and official seal as of the date hereinabove stated.

My Commission Expires: 1/17/18



Notary Public



T2S, R1E, U.S.B.&M.**NOTES:**

- ▲ = Section Corners Located
- △ = Section Corners Located Not Monumented
- 1. Well footages are measured at right angles to the Section Lines.
- 2. Bearings and distances shown on this plat are based upon a local Cartesian Grid which is oriented to Geodetic North at the SE Corner of Section 36, T2S, R1E, U.S.B.&M. the grid having a mean project height of 5,000'. Lineal units used are U.S. Survey Foot. Trimble G.P.S. equipment was used in performance of this survey.
- 3. Latitude and Longitude are NAD 83 (2011) Epoch 2010. Elevations are NAVD 88. Both derived from the Utah Virtual Reference Station Control System (VRS).
- 4. The Bottom of hole bears N59°11'56"W 410.25' from the Surface Position.

Gasco Production Company**WELL PLAT****CUCH 10-17-2-1E****1974' FSL, 1987' FEL (Bottom Hole)****NW ¼ SE ¼ OF SECTION 17, T2S, R1E,
U.S.B.&M., UTAH COUNTY, UTAH.****SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

01-12-15
No. 8704293
BROCK J
SLAUGH
PROFESSIONAL LAND SURVEYOR
LICENCE No. 8704293
STATE OF UTAH

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-7-14	SURVEYED BY: T.A.	SHEET NO: 1 OF 12
DATE DRAWN: 6-20-14	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised: 1-12-15 A.P.	

RECEIVED: Jul. 01, 2015



Badlands Energy- Utah, LLC

CUCH

SECTION 17 T2S, R1E

CUCH 10-17-2-1E

Wellbore #1

Plan: Design #1

Standard Planning Report

11 June, 2015





Payzone Directional

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	CUCH		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 17 T2S, R1E			
Site Position:		Northing:	7,284,499.09 usft	Latitude: 40° 18' 24.912 N
From:	Lat/Long	Easting:	2,085,730.24 usft	Longitude: 109° 54' 11.362 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 1.02 °

Well	CUCH 10-17-2-1E, SHL: 40° 18' 24.912 -109° 54' 11.362			
Well Position	+N/-S	0.0 usft	Northing:	7,284,499.08 usft
	+E/-W	0.0 usft	Easting:	2,085,730.24 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	5,293.2 usft
			Ground Level:	5,266.2 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/11/2015	10.77	65.94	52,041

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	300.46

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,794.7	2.92	300.46	4,794.7	2.5	-4.3	1.50	1.50	0.00	300.46	
12,710.4	2.92	300.46	12,700.0	207.0	-352.0	0.00	0.00	0.00	0.00	CUCH 10-17-2-1E TC



Payzone Directional

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,575.0	0.00	0.00	2,575.0	0.0	0.0	0.0	0.00	0.00	0.00
Uintah									
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface Casing									
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
4,700.0	1.50	300.46	4,700.0	0.7	-1.1	1.3	1.50	1.50	0.00
4,794.7	2.92	300.46	4,794.7	2.5	-4.3	5.0	1.50	1.50	0.00
Start 7915.6 hold at 4794.7 MD									



Payzone Directional Planning Report



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Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	2.92	300.46	4,799.9	2.7	-4.5	5.2	0.00	0.00	0.00
4,900.0	2.92	300.46	4,899.8	5.2	-8.9	10.3	0.00	0.00	0.00
5,000.0	2.92	300.46	4,999.6	7.8	-13.3	15.4	0.00	0.00	0.00
5,100.0	2.92	300.46	5,099.5	10.4	-17.7	20.5	0.00	0.00	0.00
5,200.0	2.92	300.46	5,199.4	13.0	-22.1	25.6	0.00	0.00	0.00
5,300.0	2.92	300.46	5,299.3	15.6	-26.5	30.7	0.00	0.00	0.00
5,400.0	2.92	300.46	5,399.1	18.2	-30.9	35.8	0.00	0.00	0.00
5,450.9	2.92	300.46	5,450.0	19.5	-33.1	38.4	0.00	0.00	0.00
Upper Green River									
5,500.0	2.92	300.46	5,499.0	20.7	-35.3	40.9	0.00	0.00	0.00
5,600.0	2.92	300.46	5,598.9	23.3	-39.7	46.0	0.00	0.00	0.00
5,700.0	2.92	300.46	5,698.7	25.9	-44.0	51.1	0.00	0.00	0.00
5,800.0	2.92	300.46	5,798.6	28.5	-48.4	56.2	0.00	0.00	0.00
5,900.0	2.92	300.46	5,898.5	31.1	-52.8	61.3	0.00	0.00	0.00
6,000.0	2.92	300.46	5,998.3	33.7	-57.2	66.4	0.00	0.00	0.00
6,100.0	2.92	300.46	6,098.2	36.2	-61.6	71.5	0.00	0.00	0.00
6,200.0	2.92	300.46	6,198.1	38.8	-66.0	76.6	0.00	0.00	0.00
6,300.0	2.92	300.46	6,298.0	41.4	-70.4	81.7	0.00	0.00	0.00
6,400.0	2.92	300.46	6,397.8	44.0	-74.8	86.8	0.00	0.00	0.00
6,500.0	2.92	300.46	6,497.7	46.6	-79.2	91.9	0.00	0.00	0.00
6,600.0	2.92	300.46	6,597.6	49.2	-83.6	97.0	0.00	0.00	0.00
6,700.0	2.92	300.46	6,697.4	51.7	-88.0	102.1	0.00	0.00	0.00
6,800.0	2.92	300.46	6,797.3	54.3	-92.4	107.2	0.00	0.00	0.00
6,900.0	2.92	300.46	6,897.2	56.9	-96.8	112.2	0.00	0.00	0.00
7,000.0	2.92	300.46	6,997.1	59.5	-101.2	117.3	0.00	0.00	0.00
7,100.0	2.92	300.46	7,096.9	62.1	-105.5	122.4	0.00	0.00	0.00
7,200.0	2.92	300.46	7,196.8	64.7	-109.9	127.5	0.00	0.00	0.00
7,300.0	2.92	300.46	7,296.7	67.2	-114.3	132.6	0.00	0.00	0.00
7,400.0	2.92	300.46	7,396.5	69.8	-118.7	137.7	0.00	0.00	0.00
7,500.0	2.92	300.46	7,496.4	72.4	-123.1	142.8	0.00	0.00	0.00
7,600.0	2.92	300.46	7,596.3	75.0	-127.5	147.9	0.00	0.00	0.00
7,700.0	2.92	300.46	7,696.1	77.6	-131.9	153.0	0.00	0.00	0.00
7,800.0	2.92	300.46	7,796.0	80.2	-136.3	158.1	0.00	0.00	0.00
7,900.0	2.92	300.46	7,895.9	82.7	-140.7	163.2	0.00	0.00	0.00
8,000.0	2.92	300.46	7,995.8	85.3	-145.1	168.3	0.00	0.00	0.00
8,100.0	2.92	300.46	8,095.6	87.9	-149.5	173.4	0.00	0.00	0.00
8,200.0	2.92	300.46	8,195.5	90.5	-153.9	178.5	0.00	0.00	0.00
8,300.0	2.92	300.46	8,295.4	93.1	-158.3	183.6	0.00	0.00	0.00
8,400.0	2.92	300.46	8,395.2	95.7	-162.7	188.7	0.00	0.00	0.00
8,494.9	2.92	300.46	8,490.0	98.1	-166.8	193.5	0.00	0.00	0.00
MGMK Marker									
8,500.0	2.92	300.46	8,495.1	98.2	-167.0	193.8	0.00	0.00	0.00
8,571.0	2.92	300.46	8,566.0	100.1	-170.2	197.4	0.00	0.00	0.00
Lower Green River									
8,600.0	2.92	300.46	8,595.0	100.8	-171.4	198.9	0.00	0.00	0.00
8,700.0	2.92	300.46	8,694.8	103.4	-175.8	204.0	0.00	0.00	0.00
8,800.0	2.92	300.46	8,794.7	106.0	-180.2	209.1	0.00	0.00	0.00
8,900.0	2.92	300.46	8,894.6	108.6	-184.6	214.2	0.00	0.00	0.00
9,000.0	2.92	300.46	8,994.5	111.2	-189.0	219.3	0.00	0.00	0.00
9,100.0	2.92	300.46	9,094.3	113.7	-193.4	224.4	0.00	0.00	0.00
9,200.0	2.92	300.46	9,194.2	116.3	-197.8	229.5	0.00	0.00	0.00
9,300.0	2.92	300.46	9,294.1	118.9	-202.2	234.6	0.00	0.00	0.00
9,400.0	2.92	300.46	9,393.9	121.5	-206.6	239.7	0.00	0.00	0.00



Payzone Directional Planning Report



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Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.0	2.92	300.46	9,493.8	124.1	-211.0	244.7	0.00	0.00	0.00
9,600.0	2.92	300.46	9,593.7	126.6	-215.4	249.8	0.00	0.00	0.00
9,694.5	2.92	300.46	9,688.0	129.1	-219.5	254.7	0.00	0.00	0.00
Wasatch									
9,700.0	2.92	300.46	9,693.5	129.2	-219.8	254.9	0.00	0.00	0.00
9,800.0	2.92	300.46	9,793.4	131.8	-224.2	260.0	0.00	0.00	0.00
9,900.0	2.92	300.46	9,893.3	134.4	-228.5	265.1	0.00	0.00	0.00
10,000.0	2.92	300.46	9,993.2	137.0	-232.9	270.2	0.00	0.00	0.00
10,100.0	2.92	300.46	10,093.0	139.6	-237.3	275.3	0.00	0.00	0.00
10,200.0	2.92	300.46	10,192.9	142.1	-241.7	280.4	0.00	0.00	0.00
10,300.0	2.92	300.46	10,292.8	144.7	-246.1	285.5	0.00	0.00	0.00
10,400.0	2.92	300.46	10,392.6	147.3	-250.5	290.6	0.00	0.00	0.00
10,500.0	2.92	300.46	10,492.5	149.9	-254.9	295.7	0.00	0.00	0.00
10,600.0	2.92	300.46	10,592.4	152.5	-259.3	300.8	0.00	0.00	0.00
10,700.0	2.92	300.46	10,692.2	155.1	-263.7	305.9	0.00	0.00	0.00
10,800.0	2.92	300.46	10,792.1	157.6	-268.1	311.0	0.00	0.00	0.00
10,900.0	2.92	300.46	10,892.0	160.2	-272.5	316.1	0.00	0.00	0.00
11,000.0	2.92	300.46	10,991.9	162.8	-276.9	321.2	0.00	0.00	0.00
11,100.0	2.92	300.46	11,091.7	165.4	-281.3	326.3	0.00	0.00	0.00
11,200.0	2.92	300.46	11,191.6	168.0	-285.7	331.4	0.00	0.00	0.00
11,300.0	2.92	300.46	11,291.5	170.6	-290.0	336.5	0.00	0.00	0.00
11,400.0	2.92	300.46	11,391.3	173.1	-294.4	341.6	0.00	0.00	0.00
11,500.0	2.92	300.46	11,491.2	175.7	-298.8	346.7	0.00	0.00	0.00
11,600.0	2.92	300.46	11,591.1	178.3	-303.2	351.8	0.00	0.00	0.00
11,641.0	2.92	300.46	11,632.0	179.4	-305.0	353.9	0.00	0.00	0.00
Lower Wasatch									
11,700.0	2.92	300.46	11,690.9	180.9	-307.6	356.9	0.00	0.00	0.00
11,800.0	2.92	300.46	11,790.8	183.5	-312.0	362.0	0.00	0.00	0.00
11,900.0	2.92	300.46	11,890.7	186.1	-316.4	367.1	0.00	0.00	0.00
12,000.0	2.92	300.46	11,990.6	188.6	-320.8	372.2	0.00	0.00	0.00
12,100.0	2.92	300.46	12,090.4	191.2	-325.2	377.2	0.00	0.00	0.00
12,200.0	2.92	300.46	12,190.3	193.8	-329.6	382.3	0.00	0.00	0.00
12,300.0	2.92	300.46	12,290.2	196.4	-334.0	387.4	0.00	0.00	0.00
12,400.0	2.92	300.46	12,390.0	199.0	-338.4	392.5	0.00	0.00	0.00
12,500.0	2.92	300.46	12,489.9	201.6	-342.8	397.6	0.00	0.00	0.00
12,600.0	2.92	300.46	12,589.8	204.1	-347.2	402.7	0.00	0.00	0.00
12,610.2	2.92	300.46	12,600.0	204.4	-347.6	403.3	0.00	0.00	0.00
Flagstaff									
12,700.0	2.92	300.46	12,689.6	206.7	-351.5	407.8	0.00	0.00	0.00
12,710.4	2.92	300.46	12,700.0	207.0	-352.0	408.4	0.00	0.00	0.00
TD at 12710.4 - PTD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CUCH 10-17-2-1E TGT	0.00	0.00	12,700.0	207.0	-352.0	7,284,699.77	2,085,374.60	40° 18' 26.958 N	109° 54' 15.905 W
- hit/miss target									
- Shape									
- plan hits target center									
- Rectangle (sides W400.0 H400.0 D0.0)									



Payzone Directional

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

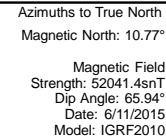
Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,575.0	2,575.0	Uintah		0.00	
5,450.9	5,450.0	Upper Green River		0.00	
8,494.9	8,490.0	MGMK Marker		0.00	
8,571.0	8,566.0	Lower Green River		0.00	
9,694.5	9,688.0	Wasatch		0.00	
11,641.0	11,632.0	Lower Wasatch		0.00	
12,610.2	12,600.0	Flagstaff		0.00	
12,710.4	12,700.0	PTD		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,500.0	4,500.0	0.0	0.0	Surface Casing	
4,600.0	4,600.0	0.0	0.0	Start Build 1.50	
4,794.7	4,794.7	2.5	-4.3	Start 7915.6 hold at 4794.7 MD	
12,710.4	12,700.0	207.0	-352.0	TD at 12710.4	



Ground Elevation: 5266.2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	7284499.08	2085730.25	40° 18' 24.912 N	109° 54' 11.362 W	
PLAN KB CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)						



SECTION 17 T2S, R1E
CUCH 10-17-2-1E
Design #1
13:11, June 11 2015

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
CUCH 10-17-2-1E TGT	12700.0	207.0	-352.0	7284699.76	2085374.6	40° 18' 26.958119°	99° 54' 15.905 W	Rectangle (Sides: L400.0 W400.0)

SECTION DETAILS

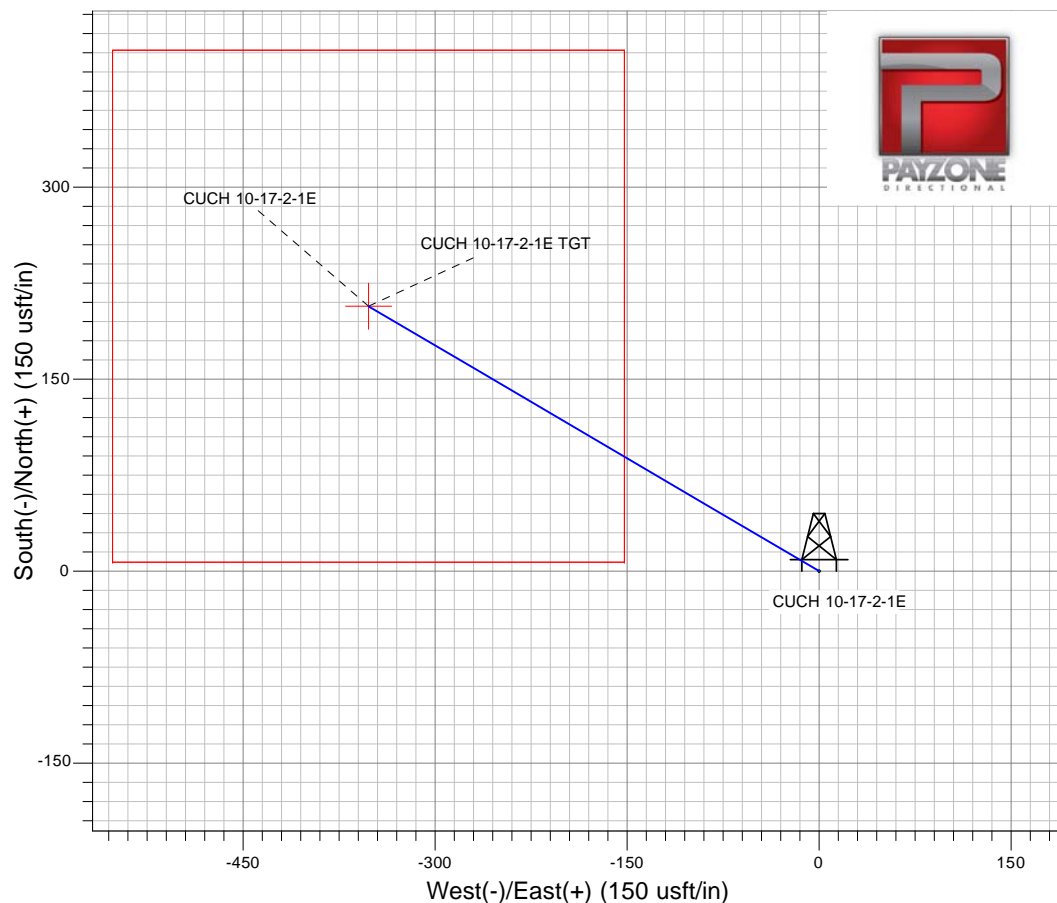
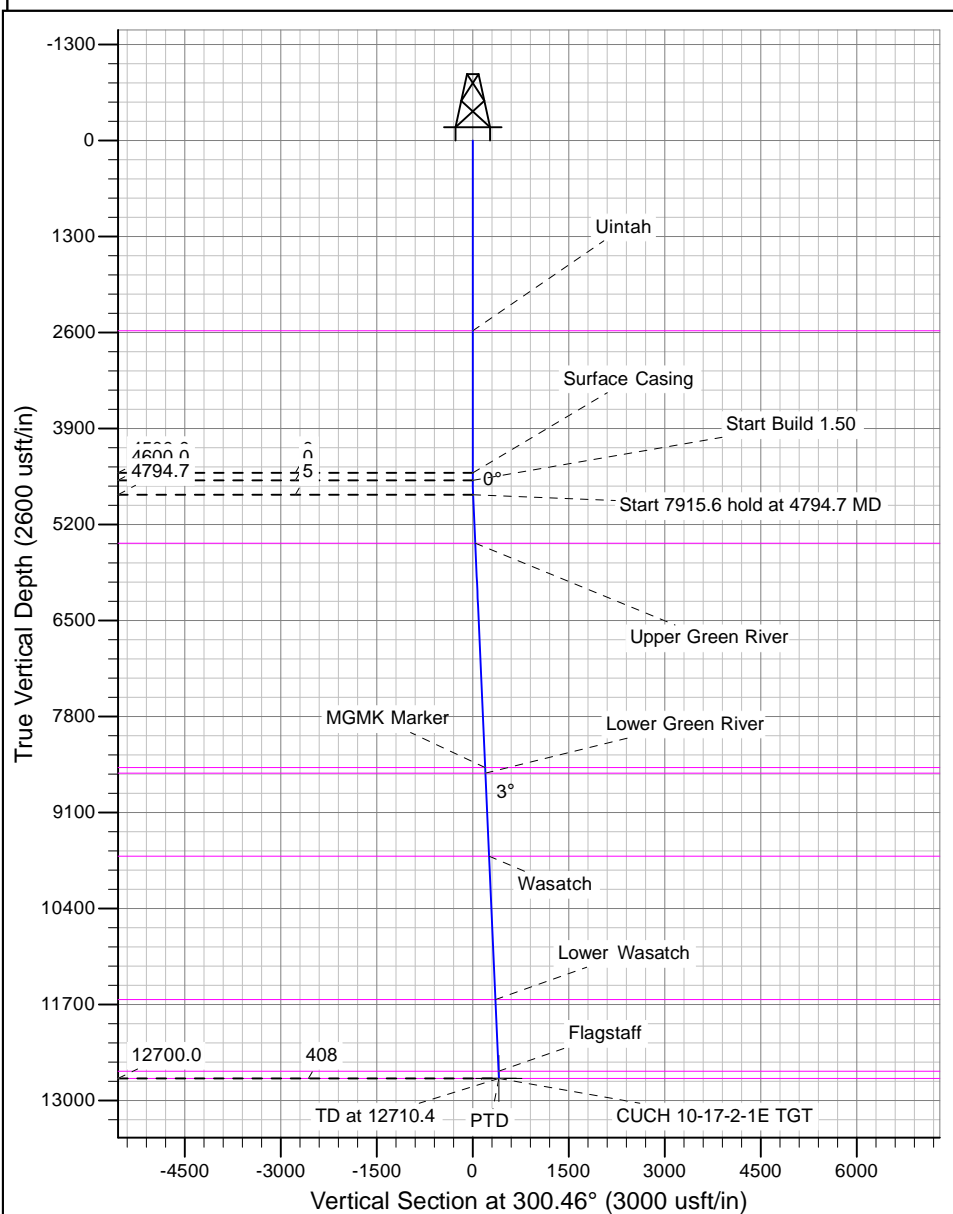
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4600.0	0.00	0.00	4600.0	0.0	0.0	0.00	0.00	0.0	
3	4794.7	2.92	300.46	4794.7	2.5	-4.3	1.50	300.46	5.0	
4	12710.4	2.92	300.46	12700.0	207.0	-352.0	0.00	0.00	408.4	CUCH 10-17-2-1E TGT

ANNOTATIONS

TVD	MD	Annotation
4500.0	4500.0	Surface Casing
4600.0	4600.0	Start Build 1.50
4794.7	4794.7	Start 7915.6 hold at 4794.7 MD
12700.0	12710.4	TD at 12710.4

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
2575.0	2575.0	Uintah	0.00	
5450.0	5450.9	Upper Green River	0.00	
8490.0	8494.9	MGMK Marker	0.00	
8566.0	8571.0	Lower Green River	0.00	
9688.0	9694.5	Wasatch	0.00	
11632.0	11641.0	Lower Wasatch	0.00	
12600.0	12610.2	Flagstaff	0.00	
12700.0	12710.4	PTD	0.00	



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 7979 East Tufts Avenue, Suite 1150 , Denver, CO, 80237		8. WELL NAME and NUMBER: Cuch 10-17-2-1E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1768 FSL 1636 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 01.0E Meridian: U		9. API NUMBER: 43047551160000
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: BLUEBELL
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/1/2015	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Gasco Production Co drilled to 4500' and set conductor at 4369' on 6/30/15 with a lead of 690 sks/337 bbls and a tail of 155 sks/46 bbls Class G with 2% Kcl cement. Gasco did not see cement back to surface and rigged up to do a top job. Cement was tagged at 120'. Gasco pumped 28 bbls Class G cement with 2% Kcl and saw returns at 18 bbls away/10 bbls cement back to surface.		
NAME (PLEASE PRINT) Jessica Berg		PHONE NUMBER 303 996-1805
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 7/1/2015		<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 06, 2015 </div>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GASCO PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 7979 East Tufts Avenue, Suite 1150, Denver, CO, 80237		8. WELL NAME and NUMBER: Cuch 10-17-2-1E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1768 FSL 1636 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 01.0E Meridian: U		9. API NUMBER: 43047551160000
PHONE NUMBER: 303 996-1805 Ext		9. FIELD and POOL or WILDCAT: BLUEBELL
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/29/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Gasco requests the following changes to the approved APD's drilling program: Increased conductor from 48#'s to 65# Increased surface csg from 1500' to 4500' Added a slight directional aspect to keep the well within our 200' window for spacing purposes Slightly increased TVD from 12,700' to 12,710. A revised drilling plan and new directional plan are attached.		
REQUEST DENIED July 06, 2015 Oil, Gas and Mining Date: _____ By:		
NAME (PLEASE PRINT) Jessica Berg	PHONE NUMBER 303 996-1805	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/29/2015	

Gasco Production Company
Cuch 10-17-2-1E
NWSE, Section 17 T2S, R1E, U.S.B.&M.
Uintah County, UT

Drilling Program

1. Formation Tops MD

Duchesne River /Uinta	Surface
Upper Green River	5,450'
MGMK Marker	8,490'
Lower Green River	8,566'
Wasatch	9,688'
Total Depth	12,710'

2. Depth to Oil, Gas, Water, or Minerals

Upper Green River	5,450'	-	(Oil)
Lower Green River	8,566'	-	(Oil)
Wasatch	9,688'	-	(Oil)

Fresh water may be encountered in the Duchesne Formation, but is not expected below about 300'.

3. Pressure Control

Section BOP Description

Surface 12-1/4" diverter

Interm/Prod The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval (MD)		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom							Burst	Collapse	Tension
Conductor	0'	80'	65	H-40	STC	--	--	--	1,730	770	322,000
16									--	--	--
Surface	0'	4,500'	36	J-55	LTC	8.33	8.6	11	3,520	2,020	453,000
9 5/8									1.54	1.35	2.80
Production	0'	12,710'	17	P-110	LTC	9	9.2	11	10,640	7,480	445,000
5 1/2									2.27	1.56	2.06

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight (ppg)	Yield (ft ³ /sk)
				sacks			
Conductor	24	80'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	161	15%	15.8	1.17
				137			
Surface	12 1/4	4,200'	Class G w/ 2% KCl + 0.25 lbs/sk Flocele	2631	100%	15.8	1.15
Lead				2288			
Surface	12 1/4	300'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	392	100%	15.8	1.17
Tail				335			
Production	8 1/2	3,500'	Econocem-1# granulate+.25# polyflake	1002	25%	11.0	3.10
Lead				323			
Production	8 1/2	9,210'	Econocem-.95%bw HR-5+.125# polyflake	4537	25%	13.0	2.10
Tail				2160			

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 25% excess.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
Surface - 4,500'	An air and/or fresh water system will be utilized.
4,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. Anticipated maximum mud weight is 9.2 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from

PBTD to the cement top behind the production casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.47 psi/ft gradient.

$$12,710' \times 0.47 \text{ psi/ft} = 5948 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

This is planned as a vertical well.

Based on prior drilling experience in the area, Gasco Production Company is confident that the 5 1/2", 17.0# production is more than sufficient to avoid any possible mechanical integrity problems relating to collapse or burst conditions.

Variance Request for FIT Requirements:

Gasco Production Company respectfully requests a variance to Onshore Order 2, Section III, Part B, for the Pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.



Badlands Energy- Utah, LLC

CUCH

SECTION 17 T2S, R1E

CUCH 10-17-2-1E

Wellbore #1

Plan: Design #1

Standard Planning Report

11 June, 2015





Payzone Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	CUCH		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 17 T2S, R1E			
Site Position:		Northing:	7,284,499.09 usft	Latitude: 40° 18' 24.912 N
From:	Lat/Long	Easting:	2,085,730.24 usft	Longitude: 109° 54' 11.362 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 1.02 °

Well	CUCH 10-17-2-1E, SHL: 40° 18' 24.912 -109° 54' 11.362			
Well Position	+N/-S	0.0 usft	Northing:	7,284,499.08 usft
	+E/-W	0.0 usft	Easting:	2,085,730.24 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	5,293.2 usft	Ground Level: 5,266.2 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/11/2015	10.77	65.94	52,041

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	300.46

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,794.7	2.92	300.46	4,794.7	2.5	-4.3	1.50	1.50	0.00	300.46	
12,710.4	2.92	300.46	12,700.0	207.0	-352.0	0.00	0.00	0.00	0.00	CUCH 10-17-2-1E TC



Payzone Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,575.0	0.00	0.00	2,575.0	0.0	0.0	0.0	0.00	0.00	0.00
Uintah									
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface Casing									
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
4,700.0	1.50	300.46	4,700.0	0.7	-1.1	1.3	1.50	1.50	0.00
4,794.7	2.92	300.46	4,794.7	2.5	-4.3	5.0	1.50	1.50	0.00
Start 7915.6 hold at 4794.7 MD									



Payzone Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	2.92	300.46	4,799.9	2.7	-4.5	5.2	0.00	0.00	0.00
4,900.0	2.92	300.46	4,899.8	5.2	-8.9	10.3	0.00	0.00	0.00
5,000.0	2.92	300.46	4,999.6	7.8	-13.3	15.4	0.00	0.00	0.00
5,100.0	2.92	300.46	5,099.5	10.4	-17.7	20.5	0.00	0.00	0.00
5,200.0	2.92	300.46	5,199.4	13.0	-22.1	25.6	0.00	0.00	0.00
5,300.0	2.92	300.46	5,299.3	15.6	-26.5	30.7	0.00	0.00	0.00
5,400.0	2.92	300.46	5,399.1	18.2	-30.9	35.8	0.00	0.00	0.00
5,450.9	2.92	300.46	5,450.0	19.5	-33.1	38.4	0.00	0.00	0.00
Upper Green River									
5,500.0	2.92	300.46	5,499.0	20.7	-35.3	40.9	0.00	0.00	0.00
5,600.0	2.92	300.46	5,598.9	23.3	-39.7	46.0	0.00	0.00	0.00
5,700.0	2.92	300.46	5,698.7	25.9	-44.0	51.1	0.00	0.00	0.00
5,800.0	2.92	300.46	5,798.6	28.5	-48.4	56.2	0.00	0.00	0.00
5,900.0	2.92	300.46	5,898.5	31.1	-52.8	61.3	0.00	0.00	0.00
6,000.0	2.92	300.46	5,998.3	33.7	-57.2	66.4	0.00	0.00	0.00
6,100.0	2.92	300.46	6,098.2	36.2	-61.6	71.5	0.00	0.00	0.00
6,200.0	2.92	300.46	6,198.1	38.8	-66.0	76.6	0.00	0.00	0.00
6,300.0	2.92	300.46	6,298.0	41.4	-70.4	81.7	0.00	0.00	0.00
6,400.0	2.92	300.46	6,397.8	44.0	-74.8	86.8	0.00	0.00	0.00
6,500.0	2.92	300.46	6,497.7	46.6	-79.2	91.9	0.00	0.00	0.00
6,600.0	2.92	300.46	6,597.6	49.2	-83.6	97.0	0.00	0.00	0.00
6,700.0	2.92	300.46	6,697.4	51.7	-88.0	102.1	0.00	0.00	0.00
6,800.0	2.92	300.46	6,797.3	54.3	-92.4	107.2	0.00	0.00	0.00
6,900.0	2.92	300.46	6,897.2	56.9	-96.8	112.2	0.00	0.00	0.00
7,000.0	2.92	300.46	6,997.1	59.5	-101.2	117.3	0.00	0.00	0.00
7,100.0	2.92	300.46	7,096.9	62.1	-105.5	122.4	0.00	0.00	0.00
7,200.0	2.92	300.46	7,196.8	64.7	-109.9	127.5	0.00	0.00	0.00
7,300.0	2.92	300.46	7,296.7	67.2	-114.3	132.6	0.00	0.00	0.00
7,400.0	2.92	300.46	7,396.5	69.8	-118.7	137.7	0.00	0.00	0.00
7,500.0	2.92	300.46	7,496.4	72.4	-123.1	142.8	0.00	0.00	0.00
7,600.0	2.92	300.46	7,596.3	75.0	-127.5	147.9	0.00	0.00	0.00
7,700.0	2.92	300.46	7,696.1	77.6	-131.9	153.0	0.00	0.00	0.00
7,800.0	2.92	300.46	7,796.0	80.2	-136.3	158.1	0.00	0.00	0.00
7,900.0	2.92	300.46	7,895.9	82.7	-140.7	163.2	0.00	0.00	0.00
8,000.0	2.92	300.46	7,995.8	85.3	-145.1	168.3	0.00	0.00	0.00
8,100.0	2.92	300.46	8,095.6	87.9	-149.5	173.4	0.00	0.00	0.00
8,200.0	2.92	300.46	8,195.5	90.5	-153.9	178.5	0.00	0.00	0.00
8,300.0	2.92	300.46	8,295.4	93.1	-158.3	183.6	0.00	0.00	0.00
8,400.0	2.92	300.46	8,395.2	95.7	-162.7	188.7	0.00	0.00	0.00
8,494.9	2.92	300.46	8,490.0	98.1	-166.8	193.5	0.00	0.00	0.00
MGMK Marker									
8,500.0	2.92	300.46	8,495.1	98.2	-167.0	193.8	0.00	0.00	0.00
8,571.0	2.92	300.46	8,566.0	100.1	-170.2	197.4	0.00	0.00	0.00
Lower Green River									
8,600.0	2.92	300.46	8,595.0	100.8	-171.4	198.9	0.00	0.00	0.00
8,700.0	2.92	300.46	8,694.8	103.4	-175.8	204.0	0.00	0.00	0.00
8,800.0	2.92	300.46	8,794.7	106.0	-180.2	209.1	0.00	0.00	0.00
8,900.0	2.92	300.46	8,894.6	108.6	-184.6	214.2	0.00	0.00	0.00
9,000.0	2.92	300.46	8,994.5	111.2	-189.0	219.3	0.00	0.00	0.00
9,100.0	2.92	300.46	9,094.3	113.7	-193.4	224.4	0.00	0.00	0.00
9,200.0	2.92	300.46	9,194.2	116.3	-197.8	229.5	0.00	0.00	0.00
9,300.0	2.92	300.46	9,294.1	118.9	-202.2	234.6	0.00	0.00	0.00
9,400.0	2.92	300.46	9,393.9	121.5	-206.6	239.7	0.00	0.00	0.00



Payzone Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.0	2.92	300.46	9,493.8	124.1	-211.0	244.7	0.00	0.00	0.00
9,600.0	2.92	300.46	9,593.7	126.6	-215.4	249.8	0.00	0.00	0.00
9,694.5	2.92	300.46	9,688.0	129.1	-219.5	254.7	0.00	0.00	0.00
Wasatch									
9,700.0	2.92	300.46	9,693.5	129.2	-219.8	254.9	0.00	0.00	0.00
9,800.0	2.92	300.46	9,793.4	131.8	-224.2	260.0	0.00	0.00	0.00
9,900.0	2.92	300.46	9,893.3	134.4	-228.5	265.1	0.00	0.00	0.00
10,000.0	2.92	300.46	9,993.2	137.0	-232.9	270.2	0.00	0.00	0.00
10,100.0	2.92	300.46	10,093.0	139.6	-237.3	275.3	0.00	0.00	0.00
10,200.0	2.92	300.46	10,192.9	142.1	-241.7	280.4	0.00	0.00	0.00
10,300.0	2.92	300.46	10,292.8	144.7	-246.1	285.5	0.00	0.00	0.00
10,400.0	2.92	300.46	10,392.6	147.3	-250.5	290.6	0.00	0.00	0.00
10,500.0	2.92	300.46	10,492.5	149.9	-254.9	295.7	0.00	0.00	0.00
10,600.0	2.92	300.46	10,592.4	152.5	-259.3	300.8	0.00	0.00	0.00
10,700.0	2.92	300.46	10,692.2	155.1	-263.7	305.9	0.00	0.00	0.00
10,800.0	2.92	300.46	10,792.1	157.6	-268.1	311.0	0.00	0.00	0.00
10,900.0	2.92	300.46	10,892.0	160.2	-272.5	316.1	0.00	0.00	0.00
11,000.0	2.92	300.46	10,991.9	162.8	-276.9	321.2	0.00	0.00	0.00
11,100.0	2.92	300.46	11,091.7	165.4	-281.3	326.3	0.00	0.00	0.00
11,200.0	2.92	300.46	11,191.6	168.0	-285.7	331.4	0.00	0.00	0.00
11,300.0	2.92	300.46	11,291.5	170.6	-290.0	336.5	0.00	0.00	0.00
11,400.0	2.92	300.46	11,391.3	173.1	-294.4	341.6	0.00	0.00	0.00
11,500.0	2.92	300.46	11,491.2	175.7	-298.8	346.7	0.00	0.00	0.00
11,600.0	2.92	300.46	11,591.1	178.3	-303.2	351.8	0.00	0.00	0.00
11,641.0	2.92	300.46	11,632.0	179.4	-305.0	353.9	0.00	0.00	0.00
Lower Wasatch									
11,700.0	2.92	300.46	11,690.9	180.9	-307.6	356.9	0.00	0.00	0.00
11,800.0	2.92	300.46	11,790.8	183.5	-312.0	362.0	0.00	0.00	0.00
11,900.0	2.92	300.46	11,890.7	186.1	-316.4	367.1	0.00	0.00	0.00
12,000.0	2.92	300.46	11,990.6	188.6	-320.8	372.2	0.00	0.00	0.00
12,100.0	2.92	300.46	12,090.4	191.2	-325.2	377.2	0.00	0.00	0.00
12,200.0	2.92	300.46	12,190.3	193.8	-329.6	382.3	0.00	0.00	0.00
12,300.0	2.92	300.46	12,290.2	196.4	-334.0	387.4	0.00	0.00	0.00
12,400.0	2.92	300.46	12,390.0	199.0	-338.4	392.5	0.00	0.00	0.00
12,500.0	2.92	300.46	12,489.9	201.6	-342.8	397.6	0.00	0.00	0.00
12,600.0	2.92	300.46	12,589.8	204.1	-347.2	402.7	0.00	0.00	0.00
12,610.2	2.92	300.46	12,600.0	204.4	-347.6	403.3	0.00	0.00	0.00
Flagstaff									
12,700.0	2.92	300.46	12,689.6	206.7	-351.5	407.8	0.00	0.00	0.00
12,710.4	2.92	300.46	12,700.0	207.0	-352.0	408.4	0.00	0.00	0.00
TD at 12710.4 - PTD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CUCH 10-17-2-1E TGT	0.00	0.00	12,700.0	207.0	-352.0	7,284,699.77	2,085,374.60	40° 18' 26.958 N	109° 54' 15.905 W
- hit/miss target									
- Shape									
- plan hits target center									
- Rectangle (sides W400.0 H400.0 D0.0)									



Payzone Directional

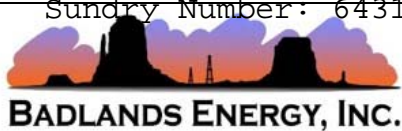
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CUCH 10-17-2-1E
Company:	Badlands Energy- Utah, LLC	TVD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Project:	CUCH	MD Reference:	CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)
Site:	SECTION 17 T2S, R1E	North Reference:	True
Well:	CUCH 10-17-2-1E	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,575.0	2,575.0	Uintah		0.00	
5,450.9	5,450.0	Upper Green River		0.00	
8,494.9	8,490.0	MGMK Marker		0.00	
8,571.0	8,566.0	Lower Green River		0.00	
9,694.5	9,688.0	Wasatch		0.00	
11,641.0	11,632.0	Lower Wasatch		0.00	
12,610.2	12,600.0	Flagstaff		0.00	
12,710.4	12,700.0	PTD		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,500.0	4,500.0	0.0	0.0	Surface Casing	
4,600.0	4,600.0	0.0	0.0	Start Build 1.50	
4,794.7	4,794.7	2.5	-4.3	Start 7915.6 hold at 4794.7 MD	
12,710.4	12,700.0	207.0	-352.0	TD at 12710.4	



Sundry Number: 64318 API Well Number: 43047551160000
Well Name: CUCH 10-17-2-1E
Surface Location: SECTION 17 T2S, R1E
North American Datum 1983 US State Plane 1983 , Utah Central Zone
Ground Elevation: 5266.2
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 7284499.08 2085730.25 40° 18' 24.912 N 109° 54' 11.362 W
PLAN KB CUCH 10-17-2-1E @ 5293.2usft (PLAN KB)

Azimuths to True North
Magnetic North: 10.77°
Magnetic Field
Strength: 52041.4snT
Dip Angle: 65.94°
Date: 6/11/2015
Model: IGRF2010

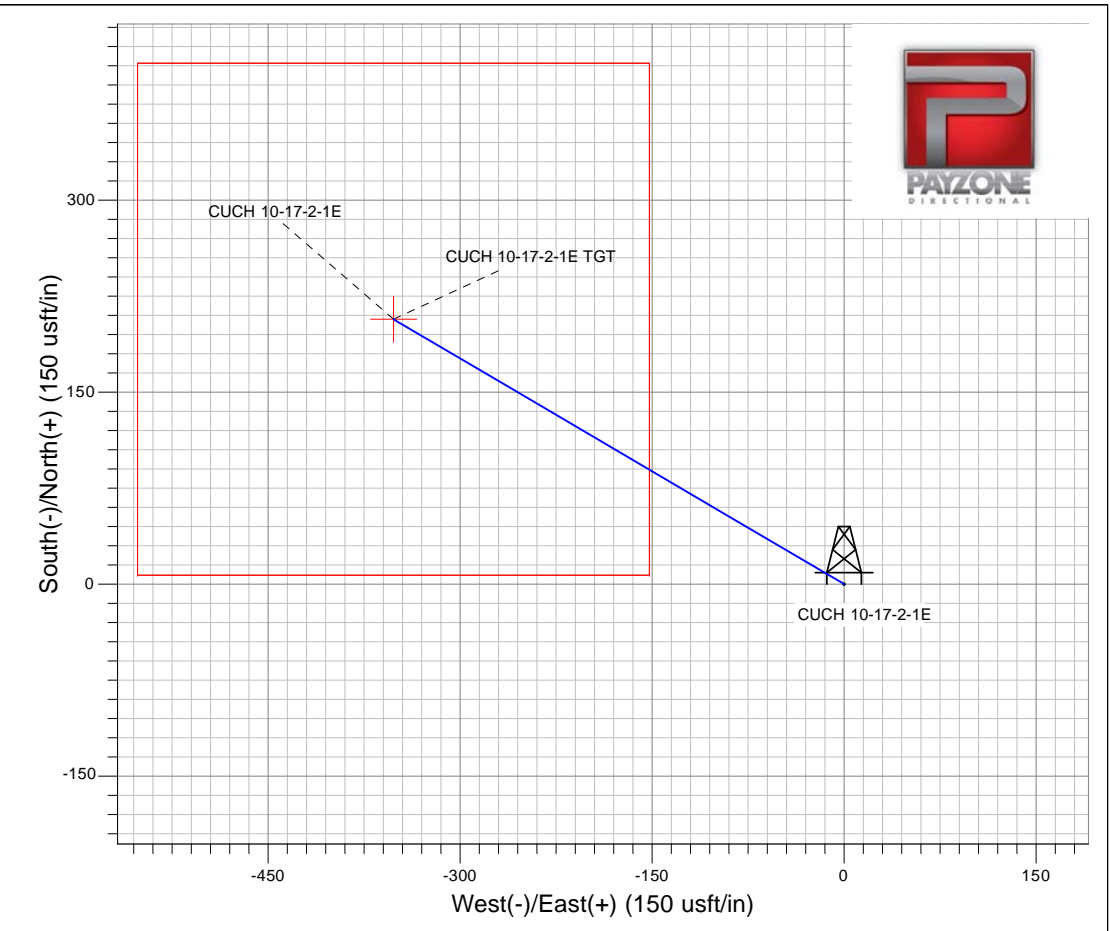
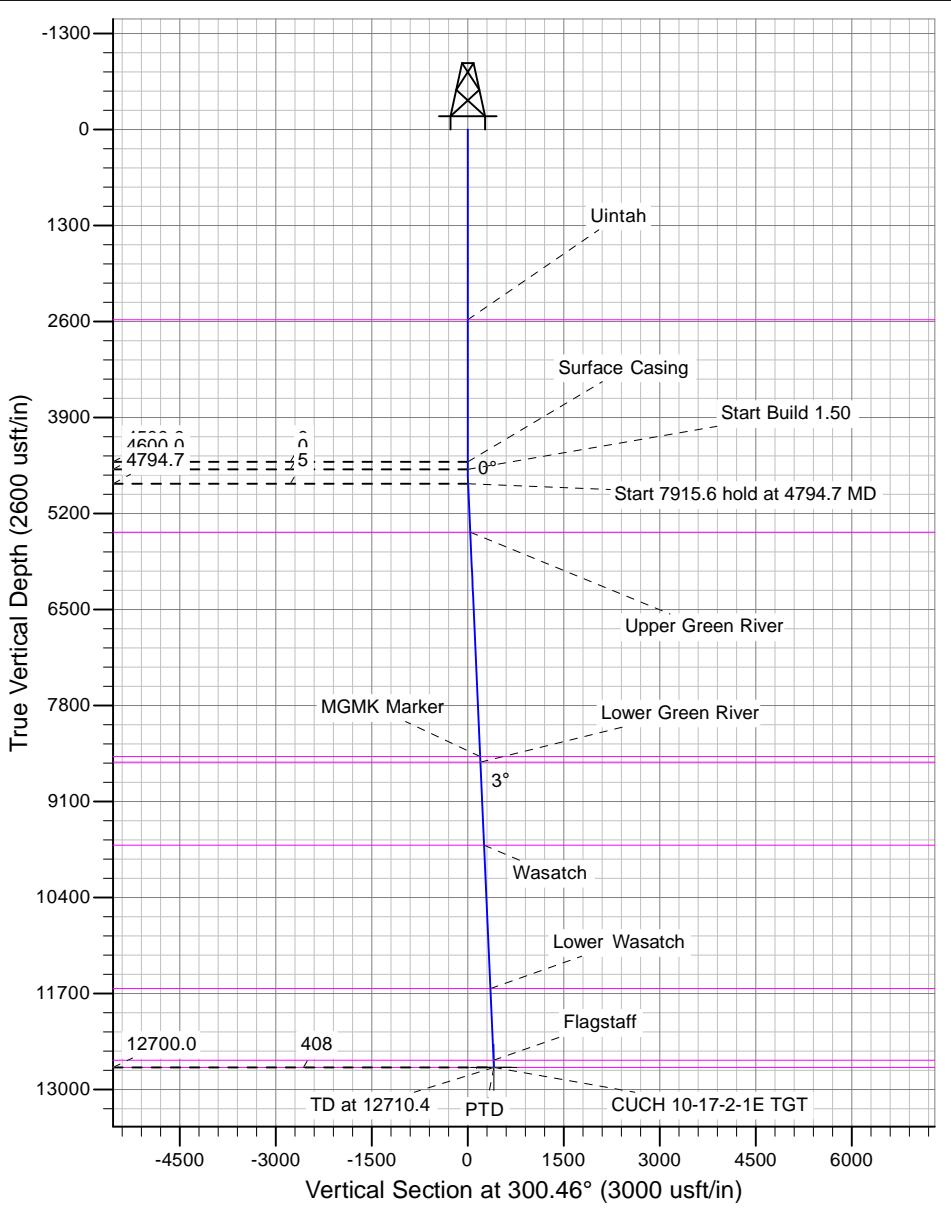
SECTION 17 T2S, R1E
CUCH 10-17-2-1E
Design #1
13:11, June 11 2015

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
CUCH 10-17-2-1E TGT	12700.0	207.0	-352.0	7284699.76	2085374.64	40° 18' 26.958109° 54' 15.905 W	Rectangle (Sides: L400.0 W400.0)		

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4600.0	0.00	0.00	4600.0	0.0	0.0	0.00	0.00	0.0	
3	4794.7	2.92	300.46	4794.7	2.5	-4.3	1.50	300.46	5.0	
4	12710.4	2.92	300.46	12700.0	207.0	-352.0	0.00	0.00	408.4	CUCH 10-17-2-1E TGT

ANNOTATIONS		
TVD	MD	Annotation
4500.0	4500.0	Surface Casing
4600.0	4600.0	Start Build 1.50
4794.7	4794.7	Start 7915.6 hold at 4794.7 MD
12700.0	12710.4	TD at 12710.4

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
2575.0	2575.0	Uintah	0.00	
5450.0	5450.9	Upper Green River	0.00	
8490.0	8494.9	MGMK Marker	0.00	
8566.0	8571.0	Lower Green River	0.00	
9688.0	9694.5	Wasatch	0.00	
11632.0	11641.0	Lower Wasatch	0.00	
12600.0	12610.2	Flagstaff	0.00	
12700.0	12710.4	PTD	0.00	




Badlands Energy Myton, Utah - Notification Form

Operator BADLANDS ENERGY Rig Name/# SST 8
Submitted By SCOTT ALLRED Phone Number 435-828-0601
Well Name/Number CUCH 10-17-2-1E
Qtr/Qtr ~~SW/NE~~ Section 17 Township 2 S Range 1 E *NWSE*
Lease Serial Number FEE
API Number 43-047-55116

SPUD NOTICE – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

CASING – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other 

Date/Time 6/29/2014 1:00 AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks If you would like to witness, please call for a more exact time
Thank You

Badlands Energy Myton, Utah - Notification Form

Operator BADLANDS ENERGY Rig Name/# SST 8
Submitted By SCOTT ALLRED Phone Number 435-828-0601
Well Name/Number CUCH 10-17-2-1E
Qtr/Qtr SW/NE Section 17 Township 2 S Range 1 E *ALSE*
Lease Serial Number FEE
API Number 43-047-55116

SPUD NOTICE – Spud is the initial spudding of the well, Setting Conductor pipe and Cement Conductor Pipe. Not drilling out below Conductor Pipe.

Date/Time _____ AM ☐ PM ☐

CASING – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 7/20/2015 07:00 AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks If you would like to witness, please call for a more exact time
Thank You

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BADLANDS ENERGY-UTAH, LLC		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 7979 E Tufts Ave, Suite 1150 , Denver, CO, 80237		8. WELL NAME and NUMBER: Cuch 10-17-2-1E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1768 FSL 1636 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 01.0E Meridian: U		9. API NUMBER: 43047551160000
PHONE NUMBER: 303 996-1813 Ext		9. FIELD and POOL or WILDCAT: BLUEBELL
COUNTY: Uintah		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/21/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Cuch 10-17-2-1E was put to production tanks on 08/21/2015.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 28, 2015		
NAME (PLEASE PRINT) Lindsey J. Cooke	PHONE NUMBER 303 996-1834	TITLE Production Tech
SIGNATURE N/A	DATE 8/27/2015	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER _____b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER _____

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR:

CITY

STATE

ZIP

PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:

12. COUNTY

13. STATE

UTAH

14. DATE SPUDDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:

ABANDONED ☐READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD
TVD19. PLUG BACK T.D.: MD
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.

WAS WELL CORED? NO ☐ YES ☐ (Submit analysis)WAS DST RUN? NO ☐ YES ☐ (Submit report)DIRECTIONAL SURVEY? NO ☐ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☐ NO ☐ IF YES -- DATE FRACTURED: _____

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

As of 9/21/2015

LEASE: Fee	WELL #: Cuch 10-17-2-1E
FIELD:	Bluebell
LOCATION:	SL: 1768' FSL & 1636' FEL NWSE BHL: 1821' FSL & 1813' FEL NWSE
COUNTY:	Uintah ST: Utah API: 43-047-55116

CONDUCTOR

SIZE:	16"
WT/GRD:	H-40
WT/GRD:	48#
CSA:	80'
SX:	137sx 15.8# Class G
CIRC:	yes
TOC:	0
HOLE SIZE:	24"

SURFACE CASING

SIZE:	9.625"
WT/GRD:	L80 LT&C
WT/GRD:	40#
CSA:	4369'
SX (Lead):	690 sx 12# Class G
SX (Tail):	155 sx 15.8# Class G
CIRC:	yes
TOC:	0
HOLE SIZE:	12.25"

PRODUCTION CASING

SIZE:	5.5"
WT/GRD:	P-110 LT&C
WT/GRD:	17#
CSA:	12645'
SX (Lead):	633 sx Poz Lite
SX (Tail):	1205 sx Poz Lite
CIRC:	yes
TOC:	9020'
HOLE SIZE:	8.75"

(Production Casing cemented in 2 stages)
 1st stage: Lead 157 sx, Tail 476 sx
 2nd stage: Lead 1055 sx, Tail 150 sx

Stimulation

Stage 6:	frac'd w/ 126,760# 40/70 Genoa Sand, 197,600# 100 Mesh Sand using 21,781 bbls FR slick water
Stage 5:	frac'd w/ 94,360# 40/70 Genoa Sand, 145,140# 100 Mesh Sand using 17,173 bbls FR slick water
Stage 4:	frac'd w/ 112,400# 40/70 Genoa Sand, 163,300# 100 Mesh Sand using 20,149 bbls FR slick water
Stage 3:	frac'd w/ 113,600# 40/70 Genoa Sand, 165,700# 100 Mesh Sand using 20,126 bbls FR slick water
Stage 2:	frac'd w/ 103,100# 40/70 Genoa Sand, 156,100# 100 Mesh Sand using 19,134 bbls FR slick water
Stage 1:	frac'd w/ 81,800# 40/70 Genoa Sand, 119,300# 100 Mesh Sand using 15,022 bbls FR slick water

MD	12,657'
TVD	12,627'
PBTD	12,580'

GL:	5266'
SPUD DATE:	6/19/2015
COMP DATE:	8/21/2015
FIRST OIL	8/21/2015

DATE FIRST PRODUCED	8/21/15
PRODUCTION METHOD	Flowing
CHOKE SIZE	16
Csg PRESSURE	

Tubing Detail:

Rod Detail:

Stage 6	10,851-11,158'	30 shots	Wasatch
Stage 5	11,202-11,380'	36 shots	Wasatch
Stage 4	11,438-11,694'	36 shots	Wasatch
Stage 3	11,734-11,974'	32 shots	Lower Wasatch
Stage 2	12,009-12,266'	32 shots	Colton
Stage 1	12,295-12,516'	30 shots	Colton

Stage 3	Top	Bottom	ft	holes
	11,734	11,735	1	2
	11,752	11,753	1	2
	11,773	11,774	1	2
	11,789	11,790	1	2
	11,794	11,795	1	2
	11,815	11,816	1	2
	11,822	11,823	1	2
	11,833	11,834	1	2
	11,847	11,848	1	2
	11,853	11,854	1	2
	11,879	11,880	1	2
	11,887	11,888	1	2
	11,921	11,922	1	2
	11,948	11,949	1	2
	11,968	11,969	1	2
	11,974	11,975	1	2
			16	32
Stage 2	Top	Bottom	ft	holes
	12,009	12,010	1	2
	12,030	12,031	1	2
	12,045	12,046	1	2
	12,053	12,054	1	2
	12,066	12,067	1	2
	12,126	12,127	1	2
	12,137	12,138	1	2
	12,156	12,157	1	2
	12,166	12,167	1	2
	12,176	12,177	1	2
	12,195	12,196	1	2
	12,212	12,213	1	2
	12,225	12,226	1	2
	12,245	12,246	1	2
	12,256	12,257	1	2
	12,266	12,267	1	2
			16	32
Stage 1	Top	Bottom	ft	holes
	12,295	12,298	3	3
	12,323	12,326	3	3
	12,346	12,349	3	3
	12,384	12,387	3	3
	12,417	12,426	9	9
	12,461	12,464	3	3
	12,481	12,484	3	3
	12,513	12,516	3	3
			30	30

Stage 6	Top	Bottom	ft	holes
	10851	10858	7	7
	10870	10877	7	7
	10924	10926	2	2
	10938	10940	2	2
	11008	11010	2	2
	11046	11048	2	2
	11085	11087	2	2
	11105	11107	2	2
	11130	11132	2	2
	11156	11158	2	2
			30	30

Stage 5	Top	Bottom	ft	holes
	11,202	11,204	2	4
	11,243	11,245	2	4
	11,284	11,286	2	4
	11,306	11,308	2	4
	11,325	11,327	2	4
	11,341	11,343	2	4
	11,354	11,356	2	4
	11,378	11,380	2	4
	11,412	11,414	2	4
			18	36

Stage 4	Top	Bottom	ft	holes
	11,438	11,444	6	6
	11,480	11,483	3	3
	11,502	11,505	3	3
	11,526	11,529	3	3
	11,549	11,552	3	3
	11,564	11,567	3	3
	11,578	11,581	3	3
	11,589	11,592	3	3
	11,625	11,628	3	3
	11,668	11,671	3	3
	11,691	11,694	3	3
			36	36



Job Number: UT 152201
Company: Badlands Energy-Utah
Lease/Well: Cuch 10-17-2-1E
Location: Section 17,T2S,R1E
Rig Name: SST 8
RKB: 23
G.L. or M.S.L.: GL 5266.2

State/Country: Utah,USA
Declination: 10.77
Grid: True
File name: C:\WINSERVE\UT152201.SVY
Date/Time: 13-Jul-15 / 04:36
Curve Name: Cuch 10-17-2-1E As Drilled

Payzone Directional

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 282.99
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>C L O S U R E</i>		<i>Dogleg Severity Deg/100</i>
							<i>Distance FT</i>	<i>Direction Deg</i>	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
258.00	.22	133.55	258.00	-.34	.36	-.43	.50	133.55	.09
320.00	.18	339.36	320.00	-.33	.41	-.48	.53	128.95	.63
381.00	.88	50.36	381.00	.06	.74	-.71	.74	85.63	1.38
442.00	.83	15.12	441.99	.78	1.21	-1.01	1.44	57.22	.85
502.00	.88	62.10	501.98	1.42	1.73	-1.37	2.24	50.75	1.14
563.00	.97	48.48	562.98	1.98	2.53	-2.03	3.22	52.03	.39
625.00	1.04	39.17	624.97	2.76	3.28	-2.58	4.29	49.92	.29
686.00	.92	24.57	685.96	3.64	3.84	-2.92	5.29	46.53	.45
780.00	.92	37.88	779.95	4.92	4.61	-3.39	6.74	43.17	.23
875.00	.40	30.50	874.94	5.81	5.25	-3.81	7.83	42.12	.55
969.00	.48	32.60	968.94	6.42	5.63	-4.04	8.54	41.24	.09
1065.00	1.00	349.20	1064.93	7.58	5.69	-3.84	9.48	36.88	.76

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1160.00	1.10	344.75	1159.91	9.28	5.29	-3.07	10.68	29.71	.14
1255.00	.40	286.30	1254.91	10.25	4.74	-2.31	11.29	24.80	1.00
1350.00	.70	320.40	1349.90	10.79	4.05	-1.52	11.52	20.56	.45
1445.00	.90	310.40	1444.89	11.72	3.11	-.39	12.13	14.86	.26
1541.00	1.40	293.70	1540.87	12.68	1.46	1.43	12.76	6.57	.62
1636.00	1.80	273.90	1635.84	13.25	-1.09	4.04	13.29	355.30	.71
1731.00	3.60	278.79	1730.73	13.81	-5.53	8.49	14.87	338.18	1.91
1826.00	3.96	281.17	1825.52	14.90	-11.69	14.74	18.94	321.87	.41
1921.00	4.30	277.74	1920.27	16.01	-18.44	21.57	24.42	310.97	.44
2017.00	4.35	277.30	2016.00	16.96	-25.62	28.77	30.72	303.51	.06
2112.00	3.69	282.09	2110.77	18.06	-32.18	35.42	36.90	299.30	.78
2207.00	2.59	297.69	2205.62	19.70	-37.07	40.55	41.98	297.98	1.46
2302.00	2.94	296.94	2300.51	21.80	-41.14	44.99	46.56	297.91	.37
2397.00	1.90	287.00	2395.43	23.36	-44.82	48.92	50.54	297.53	1.18
2493.00	1.93	284.73	2491.37	24.24	-47.91	52.13	53.69	296.84	.08
2588.00	2.46	275.45	2586.30	24.84	-51.48	55.75	57.16	295.75	.67
2682.00	2.42	283.19	2680.22	25.48	-55.42	59.73	61.00	294.69	.35
2777.00	3.47	289.12	2775.09	26.88	-60.09	64.60	65.83	294.10	1.15
2872.00	3.90	288.20	2869.90	28.83	-65.88	70.67	71.91	293.64	.46
2967.00	3.52	268.82	2964.70	29.78	-71.86	76.72	77.79	292.51	1.37
3061.00	3.76	266.73	3058.51	29.55	-77.83	82.48	83.25	290.79	.29
3157.00	2.99	280.55	3154.34	29.82	-83.43	88.00	88.60	289.67	1.16
3252.00	2.77	277.87	3249.22	30.59	-88.14	92.76	93.30	289.14	.27
3347.00	3.25	270.71	3344.09	30.94	-93.11	97.68	98.11	288.38	.64
3442.00	4.00	278.57	3438.90	31.47	-99.08	103.61	103.95	287.62	.95
3538.00	3.87	276.16	3534.68	32.31	-105.61	110.17	110.44	287.01	.22
3633.00	3.30	277.61	3629.49	33.02	-111.50	116.07	116.29	286.50	.61
3728.00	2.94	277.03	3724.35	33.68	-116.63	121.22	121.40	286.11	.38
3823.00	2.72	289.46	3819.23	34.73	-121.18	125.88	126.05	285.99	.68
3918.00	2.90	302.17	3914.12	36.76	-125.34	130.39	130.62	286.35	.68
4014.00	2.99	306.39	4009.99	39.54	-129.41	134.98	135.31	286.99	.24
4109.00	3.25	291.67	4104.86	42.00	-133.90	139.92	140.34	287.42	.88
4204.00	2.20	283.32	4199.75	43.42	-138.18	144.40	144.84	287.44	1.18
4299.00	2.59	279.01	4294.66	44.17	-142.08	148.37	148.78	287.27	.45

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Last Surface Survey									
4395.00	2.81	270.66	4390.56	44.54	-146.57	152.83	153.19	286.90	.47
4497.00	3.80	264.50	4492.39	44.25	-152.44	158.48	158.73	286.19	1.03
4592.00	2.90	283.30	4587.23	44.50	-157.91	163.87	164.06	285.74	1.48
4687.00	2.80	283.90	4682.11	45.61	-162.50	168.59	168.78	285.68	.11
4781.00	2.50	275.80	4776.01	46.37	-166.77	172.92	173.09	285.54	.51
4876.00	3.40	291.10	4870.88	47.59	-171.46	177.77	177.94	285.51	1.25
4971.00	3.60	292.10	4965.71	49.73	-176.85	183.50	183.71	285.70	.22
5066.00	3.40	290.70	5060.53	51.84	-182.25	189.24	189.48	285.88	.23
5160.00	3.10	286.40	5154.38	53.55	-187.29	194.54	194.80	285.96	.41
5255.00	3.00	283.90	5249.24	54.87	-192.17	199.59	199.85	285.94	.18
5350.00	2.90	280.60	5344.12	55.91	-196.95	204.47	204.73	285.85	.21
5445.00	2.80	278.40	5439.00	56.69	-201.60	209.19	209.42	285.71	.16
5540.00	2.10	296.90	5533.91	57.82	-205.45	213.19	213.43	285.72	1.10
5595.00	1.30	319.00	5588.89	58.74	-206.76	214.67	214.94	285.86	1.86
5729.00	1.00	314.90	5722.86	60.71	-208.58	216.89	217.24	286.23	.23
5824.00	.80	331.90	5817.85	61.89	-209.48	218.03	218.43	286.46	.35
5919.00	.60	338.10	5912.84	62.93	-209.98	218.75	219.21	286.68	.22
6014.00	.30	336.00	6007.84	63.62	-210.27	219.19	219.68	286.83	.32
6108.00	.00	341.50	6101.84	63.85	-210.37	219.34	219.84	286.88	.32
6203.00	.20	107.30	6196.84	63.80	-210.21	219.17	219.68	286.88	.21
6298.00	.40	109.90	6291.84	63.63	-209.74	218.68	219.18	286.88	.21
6393.00	.80	116.70	6386.83	63.22	-208.84	217.70	218.20	286.84	.43
6488.00	1.10	134.30	6481.82	62.29	-207.59	216.28	216.73	286.70	.44
6524.00	1.20	138.20	6517.81	61.77	-207.09	215.68	216.11	286.61	.35
6582.00	.70	139.30	6575.81	61.04	-206.46	214.90	215.29	286.47	.86
6677.00	.50	183.00	6670.80	60.19	-206.10	214.36	214.71	286.28	.51
6772.00	.80	177.40	6765.79	59.11	-206.09	214.11	214.40	286.00	.32
6868.00	1.10	186.00	6861.78	57.53	-206.16	213.81	214.03	285.59	.35
6963.00	1.20	190.00	6956.76	55.64	-206.43	213.65	213.79	285.09	.13
7058.00	1.00	252.70	7051.75	54.42	-207.39	214.31	214.41	284.70	1.22
7153.00	1.00	233.80	7146.73	53.68	-208.85	215.57	215.64	284.41	.35
7248.00	.30	312.30	7241.73	53.36	-209.70	216.33	216.39	284.28	1.04
7344.00	.40	312.40	7337.73	53.75	-210.14	216.84	216.90	284.35	.10

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7439.00	.10	336.30	7432.73	54.05	-210.41	217.18	217.25	284.41	.33
7534.00	.10	175.50	7527.72	54.04	-210.44	217.20	217.27	284.40	.21
7629.00	.20	195.00	7622.72	53.80	-210.48	217.19	217.25	284.34	.12
7725.00	.10	211.80	7718.72	53.57	-210.57	217.22	217.27	284.27	.11
7820.00	.50	42.10	7813.72	53.81	-210.33	217.04	217.10	284.35	.63
7915.00	.60	47.30	7908.72	54.45	-209.69	216.56	216.64	284.56	.12
8011.00	.70	26.70	8004.71	55.32	-209.06	216.14	216.25	284.82	.26
8106.00	1.10	32.07	8099.70	56.61	-208.31	215.70	215.86	285.20	.43
8201.00	1.00	62.80	8194.69	57.76	-207.09	214.77	214.99	285.58	.59
8296.00	1.30	85.00	8289.67	58.23	-205.28	213.11	213.38	285.84	.56
8391.00	.50	152.20	8384.66	57.96	-204.01	211.82	212.08	285.86	1.26
8487.00	.30	63.20	8480.65	57.70	-203.59	211.35	211.61	285.82	.60
8582.00	.40	87.40	8575.65	57.83	-203.04	210.84	211.11	285.90	.19
8678.00	.20	88.70	8671.65	57.85	-202.54	210.36	210.63	285.94	.21
8773.00	.70	218.20	8766.65	57.40	-202.73	210.44	210.70	285.81	.89
8868.00	.60	200.10	8861.64	56.47	-203.26	210.75	210.96	285.53	.24
8963.00	.20	331.10	8956.64	56.15	-203.51	210.92	211.11	285.42	.79
9058.00	1.00	55.60	9051.64	56.76	-202.91	210.47	210.70	285.63	1.05
9153.00	1.10	68.40	9146.62	57.57	-201.37	209.16	209.44	285.95	.27
9248.00	.90	66.10	9241.61	58.21	-199.84	207.81	208.15	286.24	.21
9344.00	1.00	79.90	9337.59	58.66	-198.33	206.44	206.82	286.48	.26
9439.00	.90	66.70	9432.58	59.10	-196.83	205.08	205.51	286.71	.25
9534.00	.70	27.00	9527.57	59.91	-195.88	204.33	204.84	287.01	.61
9629.00	.20	104.60	9622.57	60.39	-195.46	204.03	204.57	287.17	.72
9725.00	.40	99.60	9718.57	60.29	-194.96	203.53	204.07	287.18	.21
9820.00	.40	103.30	9813.57	60.16	-194.31	202.86	203.41	287.20	.03
9915.00	.64	58.89	9908.56	60.35	-193.54	202.15	202.73	287.32	.48
10011.00	.40	67.11	10004.56	60.76	-192.77	201.49	202.12	287.50	.26
10106.00	.20	82.60	10099.56	60.91	-192.30	201.07	201.72	287.58	.23
10201.00	.30	85.90	10194.56	60.95	-191.89	200.68	201.33	287.62	.11
10296.00	.40	48.30	10289.55	61.19	-191.39	200.25	200.93	287.73	.26
10391.00	.40	71.30	10384.55	61.52	-190.83	199.77	200.50	287.87	.17
10486.00	.40	69.70	10479.55	61.74	-190.20	199.21	199.97	287.98	.01
10581.00	.30	75.50	10574.55	61.91	-189.65	198.72	199.50	288.08	.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
10677.00	.50	90.30	10670.55	61.98	-188.99	198.08	198.89	288.16	.23
10772.00	.51	115.91	10765.54	61.79	-188.20	197.27	198.08	288.18	.24
10867.00	.53	133.97	10860.54	61.30	-187.50	196.48	197.26	288.10	.17
10962.00	.57	120.39	10955.53	60.75	-186.77	195.65	196.41	288.02	.14
11057.00	.46	130.10	11050.53	60.27	-186.08	194.86	195.59	287.95	.15
11153.00	.40	139.90	11146.53	59.77	-185.56	194.25	194.95	287.85	.10
11248.00	.30	104.00	11241.53	59.45	-185.11	193.74	194.42	287.81	.25
11343.00	.33	106.97	11336.52	59.31	-184.61	193.21	193.90	287.81	.04
11438.00	.40	106.90	11431.52	59.14	-184.03	192.61	193.30	287.81	.07
11533.00	.40	128.20	11526.52	58.83	-183.45	191.98	192.65	287.78	.16
11629.00	.60	148.20	11622.52	58.20	-182.92	191.32	191.96	287.65	.27
11724.00	.66	142.06	11717.51	57.35	-182.32	190.55	191.13	287.46	.09
11819.00	.59	128.90	11812.50	56.61	-181.61	189.68	190.22	287.31	.17
11914.00	.66	135.60	11907.50	55.91	-180.84	188.78	189.29	287.18	.11
12010.00	.86	131.05	12003.49	55.04	-179.91	187.68	188.14	287.01	.22
12105.00	1.08	124.48	12098.48	54.07	-178.64	186.22	186.64	286.84	.26
12200.00	1.25	114.50	12193.46	53.13	-176.96	184.37	184.76	286.71	.28

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BIT #	SIZE	MGF	TYPE	SERIAL NUMBER	JETS	DEPTH IN	OUT	FOOTAGE	HOURS	WOB	RPM	ROP
BIT CONDITION		INNER ROWS	OUTER ROWS	DULL CHAR.		LOCATION	BEARINGS / SEALS		GAGE	OTHER	REASON PULLED	

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Days from Spud		Lease and Well No.		Prospect/Field		Date	
DRLG 15		CUCH 10-17-2-1E		SOUTH ALTAMONT		14 Jul 2015	
MD		TVD		Progress		Planned TD	
12,305'		12,298'		0'		12,700'	
County/Parish		State		Rig		Drilling Supervisor	
Uintah		Utah		SST 8		SCOTT ALLRED/MIKE SITTON	
Present Operation		AFD No.		AFD DHC		AFD CWC	
STRIP IN 10 STANDS		14029		1,383,220		\$4,564,590	
Time Log		Hrs		AFD DHC		AFD CWC	
From To		Hrs		AFD DHC		AFD CWC	
6:00 13:00		7.0		AFD DHC		AFD CWC	
13:00 15:00		2.0		AFD DHC		AFD CWC	
15:00 18:00		3.0		AFD DHC		AFD CWC	
18:00 20:30		2.5		AFD DHC		AFD CWC	
20:30 23:00		2.5		AFD DHC		AFD CWC	
23:00 2:30		3.5		AFD DHC		AFD CWC	
2:30 3:30		1.0		AFD DHC		AFD CWC	
3:30 5:00		1.5		AFD DHC		AFD CWC	
5:00 6:00		1.0		AFD DHC		AFD CWC	
WGS & MUD DISPOSAL, SURF		TD		12,700'		12,876'	
MUD REPORT		GELS		FLUID LOSS		SOLIDS	
MW VIS PV YP		INITIAL 10 MIN		API HPHT		%	
12.1 41 13 14		4 11		15.0		15.0%	
CAKE PH PM PF MF CL		HARDNESS ECD		LCM		Daily Mud Cost	
						\$8,026	
BIT #		SERIAL NUMBER		JETS		DEPTH IN	
BIT # SIZE		MGF TYPE		DAY END/OUT		TOTAL FOOTAGE	
1 12 1/4"		SMITH MSi616		JJ4442 6-16		80' 4,500' 4,420'	
2 8 3/4"		SMITH MDSi516		JK 1684 5-14		4,500' 7,011' 2,511'	
3 8 3/4"		SMITH MDSi616		JH7674 6-16		7,011' 9,870' 2,859'	
4 8 3/4"		SMITH MDSi516		JJ 1516 5-22		9,870' 12,305' 2,435'	
5 9 3/4"		SMITH MDSi517		JH2907 5-23		12,305' -12,305'	
6				0'			
BIT CONDITION		INNER ROWS		OUTER ROWS		DULL CHAR.	
#4		1		2		CC	
PUMP REPORT		LINER		ANNULAR VELOCITY		DC OD	
PUMP # MODEL		SIZE		SPM GPM		PRESSURE	
1 H&H F-1600		6"		0 0		6 1/2"	
2 H&H F-1600		6"		0 0		4 1/2"	
TOTAL		0		0		8 3/4"	
BHA TOTAL LENGTH		BHA #2 DESCRIPTION		11" SHAFFER LWS 5,000# DBL GATE & 11" SHAFFER 5,000# ANNULAR		1 Jul 2015	
583.5		8 3/4 BIT w// 5-22s //MUD MOTOR 6.5-1.5-7/8-3.5-.15//6-DC'S RIG//12HWD				5,000 PSI	
BOP MAKE & TYPE		LAST BOP TEST DATE & PRESSURE		1 Jul 2015		5,000 PSI	
CASING RECORD		TOTAL DRILL GAS		TOUR CHECK		DEVIATION RECORD	
DEPTH		GAS		UNITS		DEPTH INC AZ	
SIZE PROPOSED ACTUAL		BACKGROUND		185		PUMP 1 PUMP 2	
9 5/8 4,500' 4,369'		CONN GAS		PICK UP		SPM/PSI SPM/PSI	
5 1/2 12,700'		PEAK GAS		1,932		40 60	
		TRIP GAS		ROTATING		CO-MAN PHONE NO.	
FUEL USED 701 GALS		FLARE SCF's		TORQUE		435-828-0601/844-792-	

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Days from Spud		Lease and Well No.		Prospect/Field		Date	
DRLG 20		CUCH 10-17-2-1E		SOUTH ALTAMONT		19 Jul 2015	
MD		TVD		Progress		Planned TD	
12,657'		12,627'		0'		12,700'	
County/Parish		State		Rig		Drilling Supervisor	
Uintah		Utah		SST 8		SCOTT ALLRED/MIKE SITTON	
Present Operation		AFD No.		AFD DHC		AFD CWC	
TRIP IN PICK UP DRILL PIPE		14029		1,383,220		\$4,564,590	
Time Log		Hrs		AFD Days (CWC)		AFD No.	
From		To		21 DAYS		14029	
6:00		8:00		2.0		SHORT TRIP OUT TO 6000' CHECK FOR FLOW	
8:00		9:00		1.0		CHECK FOR FLOW	
9:00		10:30		1.5		TRIP IN THE HOLE TO 8564	
10:30		12:00		1.5		CIRCULATE OUT GAS AND BOTTOMS UP	
12:00		12:30		0.5		RIG SERVICE	
12:30		13:00		0.5		TRIP IN THE HOLE 9899	
13:00		14:30		1.5		CIRCULATE OUT GAS AND BOTTOMS UP	
14:30		15:30		1.0		TRIP IN THE HOLE 11423'	
15:30		17:00		1.5		CIRCULATE OUT GAS AND BOTTOMS UP	
17:00		18:00		1.0		TRIP IN TO BOTTOM 12657'	
18:00		22:00		4.0		CIRCULATE OUT GAS AND BOTTOMS UP, CONDITION MUD	
22:00		23:00		1.0		PUMP AND SPOT 15.3# ECD PILL, DRY SLUG	
23:00		2:00		3.0		TRIP OUT 10 STDs, LD 60 JTS, STARTED COMING WET @ 50, TRIP OUT 10 STDs TO 8,800', HOLE NOT TAKING REQUIRED FLUID	
2:00		3:30		1.5		RU LD MACHINE TO PU DP, CHANGE OUT FLOW SENSOUR	
3:30		4:30		1.0		PU DP, TRIP IN TO 9600'	
4:30		5:30		1.0		PUMP 3900 STKS	
5:30		ISPOSAL, SUR		0.5		TRIP IN PICK UP DRILL PIPE	
TOTAL HOURS:		24.0		TD		12,700'	
MUD REPORT		PROGNOSIS		ACTUAL		TVD ACTUAL	
MW		VIS		PV		YP	
11.7		43		12		10	
CAKE		PH		PM		PF	
2-32		8.0		0.00		0	
BIT #		SERIAL		JETS		DEPTH IN	
1		12 1/4"		SMITH		MSi616	
2		8 3/4"		SMITH		MDSi516	
3		8 3/4"		SMITH		MDSi516	
4		8 3/4"		SMITH		MDSi516	
5		9 3/4"		SMITH		MDSi517	
6		TOTAL		0		0	
BIT CONDITION		INNER ROWS		OUTER ROWS		DULL CHAR.	
PUMP REPORT		LINER		ANNULAR VELOCITY		HOLE	
PUMP #		MODEL		SIZE		SPM	
1		H&H F-1600		6"		0	
2		H&H F-1600		6"		0	
BHA TOTAL LENGTH		BHA #2 DESCRIPTION		TOTAL		0	
583.5		8 3/4 BIT w// 5-22s //MUD MOTOR 6.5-1.5-7/8-3.5-.16//6-DC'S RIG//12HWDP		TOTAL		0	
BOP MAKE & TYPE		LAST BOP TEST DATE & PRESSURE		11" SHAFFER LWS 5,000# DBL GATE & 11" SHAFFER 5,000# ANNULAR		1 Jul 2015	
CASING RECORD		TOTAL DRILL GAS		TOUR CHECK		DEVIATION RECORD	
DEPTH		GAS		UNITS		DEPTH	
SIZE		PROPOSED		ACTUAL		INC	
9 5/8		4,500'		4,369'		AZ	
5 1/2		12,700'		PEAK GAS		PUMP 1	
FUEL USED		643		GALS		SPM/PSI	
FLARE SCF's		TORQUE		PSI		PUMP 2	
CO-MAN PHONE NO.		435-828-0601/844-792-		SPM/PSI		SPM/PSI	

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Badlands Production Utah -LLC

Cuch 10-17-2-1E
SW SE of Section 17-T2S-R1E
Uintah County Utah,
43-047-51160000

7/28/15 Have safety meeting. Start building battery. MIRU Miles well service to drill out cement stage tool and clean out to prep for RPM, and CBL logs. Install tbg head. NU Nabors 7" 5k BOP. TIH w/233 jnts 2 7/8" EUE 8rnd L-80 tbg and leave EOT @ 9,233' for night. SDFD. (JD) DC \$5,560 Drilling Total \$1,897,551 Completion total \$306,689 AFE Total \$2,204,240

7/29/15 Have safety meeting. Continue battery construction. Fd well dead. TIH w/13 jnts tbg and tag fill @ 9,625'. Lay one jnt dn and PU power swivel. Swivel in 1 jnt tbg and clean out to 9,664' and tag cement stage tool, saw cedar fiber and mud in returns. Drill out and RIH tag @ 12,560'. Clean out and tag solid @ 12,580'. PU 10' and circulate 2 wellbore volumes. POOH laying dn tbg. Leave EOT @ 8,196' w/253 jnts tbg. Secure well and SDFD. (JD) DC \$5,270 Drilling total \$1,897,551 Completion total \$311,959 AFE Total \$2,209,510

7/30/15 Have safety meeting. Continue building battery. Finish POOH laying dn w/253 jnts 2 7/8" tbg. Secure well and SDFD. (JD) DC \$3,250 Updated late drilling cost \$23,418 Drilling total \$1,920,969 Completion total \$315,209 AFE Total \$2,236,178

7-31-15 Updated cost. Set Production Equipment, Tanks, Heater treater, secondary scrubber, DC \$111,811 (SD) Drilling total \$1,920,969 Completion total \$427,348 AFE Total \$2,348,317

7/31/15 Have safety meeting. Continue building battery. MIRU Halliburton logging crew. MU and RIH w/gauge ring and junk basket. Tag @ 12,570' and POOH. When OOH fd tools gone. MU logging tool and RIH log from TD to surface w/Reservoir Monitor tool and CBL tools. MU and RIH w/4.70 overshot and tag @ 9,664', POOH and JDC pin had sheared and left overshot in the hole. Secure well and SDFD. (JD) DC \$17,060 Drilling total \$1,920,969 Completion total \$444,408 AFE Total \$2,365,377

8/1/15 Have safety meeting. MU and RIH w/overshot on wire and try to catch fish. Unable to catch fish, POOH. Will have to run tools on pipe Monday. Secure well and SDFD. (JD) DC \$1,900 Drilling total \$1,920,969 Completion total \$446,308 AFE Total \$2,367,277

- 8/3/15 Updated Completion Costs. (SD) DC \$971
- 8/3/15 Have safety meeting. ND wellhead, NU Nabors 7" 5k BOP. MU and RIH w/overshot and Bumper and bumper sub. Tag fish @ 9,664'. Set dn 8k and fell over fish. POOH standing back tbg and tools. Fd both both over shots in tools. Secure well and SDFD. (JD) (DC to be paid by Halliburton \$4,450)
Drilling Total \$1,920,969 Completion total \$447,279 AFE Total \$2,368,248
- 8/4/15 Have safety meeting. MU 4 3/4" overshot dressed w/cutright+Bumpersub and RIH. Tag @ 9,664'. PU power swivel and clean out tight spot. RIH and tag fish @ 12,580'. Start pumping and wash down over fish top and latch fish. POOH laying dn tbg. OOH w/136 jnts tbg. Leave EOT @ 8,189' for night and SDFD. (JD) DC Halliburton will pay \$23,871 Total \$28,321 Completion Total \$447,279 Drilling total \$1,920,969 AFE Total \$2,368,248
- 8/5/15 Have safety meeting. Finish POOH laying dn tbg and tools. Fd Halliburton junk basket and gauge ring in overshot. ND BOP, NU wellhead and flow line. RDMO service unit. Total cost to HES \$29,591 Updated late costs DC \$11,300 Drilling total \$1,920,969 Completion Total \$457,579 AFE Total \$2,378,548
- 8/12/15 Have safety meeting. Start MIRU Halliburton energy services. MIRU The Perforators. FD well with 0 sicp. RIH w/3 1/8" guns. **Perf stage-1 Colton** from **12,295-98', 12,323-26', 12,346-49', 12,384-87', 12,417-26', 12,461-64', 12,481-84', 12,513-16'**. POOH. Well built up to 300 psi after perfs shot. Secure well for night and SDFD. (JD)
- 8/12/15 Updated cost. DC \$29,057 Drilling total \$1,920,969 Completion total \$486,636 AFE Total \$2,407,605
- 8/13/15 Have safety meeting. Prime and test pumps and lines to 9,500 psi, test good. RU to frac. Break dn perfs w/6,845 @ 5 bpm. Get rate up to 25 bpm and step dn. ISIP 5,278 FG .86 Calculated holes open 18.3. FR slick water frac well w/81,800# 40/70 Genoa sand, 119,300# 100 mesh sand, 1,500 gal 15% HCL, 15,022 bbls FR slick water, and flushed with 357 bbls FR slick water. Spotted 500 gals 15% HCL during flush for next set of perfs. SD, ISIP 5,457 FR .88 MR 61.9, AR 57.6 MP 8,282 AP 7,235 Cut job 13,000# short on 100 mesh stage due to psi. RIH w/plug and guns. **Set HES 10k Obsidian FTFP w/soluplug @ 12,279'**. **Perf stage-2 Colton @ 12,009', 12,030', 12,045', 12,053', 12,066', 12,126', 12,137', 12,156', 12,166', 12,176', 12,195', 12,212', 12,225', 12,245', 12,256', 12,266'**, w/3 1/8" Guns, 18 gram Titan charges .4 EH 38" pen, 1 SPF 60 degree phase. RU to frac. Fd 4,642 sicp. Break dn perfs w/4,861 @ 5 bpm. Get

rate up to 47 bpm @ 5,867 psi. SD, ISIP 4,611 FG .82 Calculated holes open 25. FR slick water frac well w/103,100# 40/70 Genoa sand, 156,100# 100 mesh sand, 19,134 bbls FR slick water, and flushed w/356 bbls FR slick water. Pumped 500 gal 15% HCL during flush for next set of perfs. SD, ISIP 4,823 FG .83 MR 72 bpm, AR 70 bpm, MP 7,745 AP 6,617. Dropped 4 bio ball sealers during stage 39 and saw good ball action and break. Jobs pumped very well. SDFD. (JD)

8/14/15 Have safety meeting. Refill water tanks and work on pump trucks. (JD)

8/15/15 Have safety meeting. Fd 4,500 sicp. RIH w/plug and guns. **Set HES 10k Obsidian FTFP w/soluplug @ 11,994'. Perf stage-3 Lower Wasatch @ 11,734', 11,752', 11,773', 11,789', 11,794', 11,815', 11,822', 11,833', 11,847', 11,853', 11,879', 11,887', 11,921', 11,948', 11,968', 11,974',** w/3 1/8" guns, 18 gram titan charges, 38" Pen, .4 EH 2 SPF. RU to frac. Break dn perfs w/4,983 @ 5 bpm. Get rate up to 60 bpm and step dn. ISIP 4,692 FG .84 Calculated holes open 26. FR slick water frac well w/113,600# 40/70 Genoa sand, 165,700# 100 mesh sand, 20,126 bbls FR slick water, and flushed w/357 bbls FR slick water. Dropped 5 bio ball sealers during stage 39 and saw good ball action and break. Dropped 5 bio ball sealers during stage 52 and saw good ball action and break. SD. ISIP 4,859 FG .85 MP 8,066 AP 6,697 MR 71.6 bpm, AR 70 bpm. RIH w/plug and guns. **Set HES 10k Obsidian FTFP w/soluplug @ 11,712' Perf stage-4 Wasatch f/11,438-44', 11,480-83', 11,502-05', 11,526-29', 11,549-52', 11,564-67', 11,578-81', 11,589-92', 11,625-28', 11,668-71', 11,691-94',** w/3 1/8" guns, 18 gram titan charges, 38" Pen, .4 EH 1 SPF POOH. RU to frac. Break dn perfs w/4,609 @ 5 bpm. Get rate up to 58 bpm and step dn. ISIP 4,239 FG .81 Calculated holes open 22. FR slick water frac well w/112,400# 40/70 Genoa sand, 163,300# 100 mesh sand, 20,149 bbls FR slick water, and flushed w/357 bbls FR slick water. SD, ISIP 4,299 FG .83 MP 7,274, AP 6,539, MR 77 bpm, AR 74 bpm. Did not drop any balls during job because of psi. Secure well and SDFD. (JD)

8/16/15 Have safety meeting. Refill water tanks and work on pump trucks.

8/17/15 Have safety meeting. Fd 4,100 sicp. RIH w/plug and guns. Tag sand @ 11,400' and pull sticky to get away. **Set HES 10k Obsidian FTFP w/soluplug @ 11,400'** to avoid getting plug stuck. Unable to shoot perf @ (11,412-14)' **Perf stage-5 Wasatch f/11,202-04', 11,243-45', 11,284-86', 11,306-08', 11,325-27', 11,341-43', 11,354-56', 11,378-80',** w/3 1/8" guns, 18 gram titan charges, 38" Pen, .4 EH 1 SPF. POOH RU to frac. Break dn perfs w/5,876 @ 9 bpm. Get rate up to 68 bpm and step dn. ISIP 4,521 FG .84 Calculated holes open 24 FR slick water frac well w/94,360# 40/70 Genoa sand, 145,140# 100 mesh sand, 17,173 bbls FR slick water, and flushed w/357 bbls FR slick water. SD, ISIP 4,755 FG .86 MR 73 bpm, AR 70 bpm, MP 7,148 AP 6,643. Dropped 5 bio balls during stage 39 and saw good ball action, no break. RIH w/plug and guns. **Set HES**

10k Obsidian FTFP w/soluplug @ 11,178' Perf stage-6 Wasatch
f/10,851-58', 10,870-77', 10,924-26', 10,938-40', 11,008-10', 11,046-48', 11,085-87', 11,105-07', 11,130-32', 11,156-58' w/ w/3 1/8" guns, 18 gram titan charges, 38" Pen, .4 EH 1 SPF. RU to frac. Break dn perfs w/4,948 @ 10 bpm. Get rate up to 60 bpm w/6,227 psi and step dn. SD, ISIP 4,375 FG .83 Calculated perfs open 23. FR slick water frac well w/126,760# 40/70 Genoa sand, 197,600# 100 mesh sand, 21,781 bbls FR slick water, and flushed w/357 bbls FR slick water. SD, ISIP 4,570 FG .85 MR 68 bpm, MP 7,077, AR 64.6 bpm, AP 6,267 psi. Dropped 15 Bio ball sealers throughout job and saw good ball action. Will have coil on location 8/19/15 to drill out plugs. Secure well and SDFD. (JD)

8/18/15 RDMO HES. MIRU Basic energy services coil tbg. Updated late costs: cost include Frac, Perforate, flowback. DC \$675,226 Drilling total \$1,920,969 Completion total \$1,132,805 AFE Total \$3,053,774

8/19/15 Have safety meeting. MIRU Basic Energy coil tbg. MU Weatherford . Psi test pump and lines to 7,500, test good. Fd 4,100 sicp. RIH tag plug #1 @ 11,178', wellhead @ 4,000. Drill up and saw 0 psi inc. RIH tag plug #2 @ 11,400', wellhead @ 4,000. Drill up and saw 0 psi inc. RIH and tag plug #3 @ 11,712', wellhead @ 4,100. Drill up and saw 0 psi inc. RIH and tag plug #4 @ 11,994', wellhead @ 4,000. Drill up and saw 0 psi inc. RIH and tag plug #5 @ 12,279', wellhead @ 4,000. Drill up and saw 0 psi inc. RIH and tag PBTD @ 12,580'. Circulate bottoms up and POOH coil tbg. SDFD. (JD)

8/20/15 6:00 am well flowing @ 4,050 on a 14/64 ck. Recovered 1,338 bbls in 10 hrs TLR, 1338 bbls. BLWTR114,048 bbls.